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8/27/99



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27 August 1999

Mr. Jon Peterson, SR-6J
Work Assignment Manager
U.S. Environmental Protection Agency
77 West Jackson Boulevard
Chicago, Illinois 60604

U.S. EPA Contract No. 68-W7-0026
Work Assignment No. 003-ROBF-05AN
Document Control No. RFW003-2C-ADGK
Subject: Oversight of Remedial Activities
Albion-Sheridan Landfill Site

Dear Mr. Peterson:

Roy F. Weston, Inc. (WESTON®) is pleased to submit the field oversight report for the remedial activities in progress at the Albion-Sheridan Township Landfill Site. This letter report summarizes the activities that took place between 19 July 1999 and 13 August 1999. Copies of the field notes from the field logbook, daily reports, and photographs of the field activities are included as attachments to this letter.

In general, all remedial activities were conducted in accordance with the plans and specifications set forth in the Construction Quality Assurance Plan and in the Final Design Plan for Albion-Sheridan Township Landfill, Calhoun County, Michigan prepared by Woodward Clyde in August 1997. Any deviations from the aforementioned plans and specifications are detailed in the following weekly work summaries.

Week of 19 July 1999

During this week placement of the geomembrane along the south side of the landfill was completed. A rub sheet (a plastic sheet between liner and soil) for protecting against the moisture and particulates





Mr. John Peterson, SR-6J
U.S. Environmental Protection Agency

-2-

27 August 1999

was not utilized during fusion welding until 23 July 1999. Over 240 geomembrane areas were patched along the south side (south of Passive Gas Collection Line No. 2) of the landfill. The installation of the geonet (drainage net) was initiated along the south side of the landfill.

An anchor trench along the west and east sides of the landfill was also excavated during this week. Rain flaps associated with the stormwater collection were installed along the south side of the landfill.

Liquid from the seep area located in the northwest corner of the landfill was pumped onto the center of the landfill to avoid the seep liquid from migrating off the landfill. Ms. Mary Schafer and Ms. Wendy Ramirez of the Michigan Department of Environmental Quality sampled the seep liquid and associated sediment. A portion of the perimeter fence was installed along the south side of the site.

Week of 26 July 1999

During this week, the geomembrane was placed over the gas collection layer to an area near the Passive Gas Collection Line No. 4 (from south) area. The drainage net was placed on top of the geomembrane south of the Passive Gas Collection Line No. 2 (from south) area. OHM-IT continued to excavate the anchor trench along the west and east sides of the landfill. Rain flaps were welded along the top of the landfill. Seep liquid from the northwest corner of the landfill was pumped onto the center of the landfill. A heavy rainfall event was recorded at the site on 31 July 1999.

Week of 02 August 1999

The erosional damage caused by heavy precipitation was repaired during this week. Geomembrane placement was completed in an area south of the Passive Gas Collection Line No. 6 (from south). Installation of the site subdrain system (rain flaps, perforated pipe, stone, geonet) continued at the site. Soil was removed from the west burrow pit for the installation of the 18" soil cover layer along the south side of the landfill. A small methane fire was created from a hand torch utilized for air testing on 06 August 1999. The fire destroyed a small portion of the geomembrane.

Week of 09 August 1999

Heavy rainfall once again delayed construction activities at the site. Erosion of soil along the eastern edge of the landfill (east of liner area) revealed a small amount of waste. The waste was collected and test pits were excavated within the immediate area to insure that additional waste was not



Mr. John Peterson, SR-6J
U.S. Environmental Protection Agency

-3-

27 August 1999

present. The gas collection layer below the geomembrane appears to have been eroded in select areas.

During this week water from the seep area was pumped to a holding tank instead of to the top of the landfill. The geomembrane destroyed during the methane fire (06 August 1999) was repaired utilizing a new geomembrane panel. Geomembrane placement was completed in an area north of Passive Gas Collection Line No. 7 (from north). The geomembrane was placed over the seep area located in the northwest corner of the landfill. The geomembrane seams were not oriented parallel to the direction of the maximum greatest slope along a portion of the north side of the landfill.

Two drums containing hazardous waste were transported off-site for disposal purposes. The remaining drums stored within the on-site drum storage area on-site were emptied into a roll-off dumpster. The drums were then crushed and placed within the roll-off dumpster. The roll-off dumpster was transported off-site by a truck operated by Inland Waters.

The geonet was completed in an area south of Passive Gas Collection Line No. 4. The 18" cover soil layer was placed in an area south of Passive Gas Collection Line No. 3.

Should you have any questions or require additional information, please feel free to contact me at (847) 918-4005.

Very truly yours.

ROY F. WESTON, INC.

Deepak L. Bhojwani
Site Manager

DLB:kms

Attachments

ATTACHMENT A

FIELD LOGS

- 11:20 Destructive testing panel ^{DD} ~~marked~~ ^{DD} ~~for~~
 into 3 sections for testing as
 specified in specs.
- 11:30 Took picture on water truck spraying
 down area next to geomembrane
 - rolling out area immediately after
- 11:45 Using Wegman North America, Inc.
 VHT-1st 500 Serial #92021 for
 conductivity field tests for peil and sheer
 + Michelle (NTIT) off-site
- 12:00 Weston off-site (David DeYoung)

David DeYoung

- 7-19-99, 78°F, Humid, Cloudy
- 8:50 Went into OTHM/IT trailer and signed in
 - Tim Hicks on-site for W-C
 - Mike Gieser ~~on-site~~
 - Jeff ~~on-site~~ ^{Boyd} on-site for OTHM/IT
- 9:15 Walked into landfill and observed
 site happenings
 - liner has been laid in southeast
 and southwest corners of landfill
 - one additional roll extending completely
 across landfill, W-E has also been
 put in place north - no same roll
 as Friday
 - liner covering "not covered" areas on
 7-16-99 ⁸⁹ diagram were "bid down in
 east-west direction
 - GSE employees working on extrusion welding
 and air testing at this point
 - with rain in forecast - want to
 complete area started
 - appear to be extrusion welding along
 number of fusion welding seams
 and areas of destructive testing
 - probable trouble with dust + sand
- 9:35 Small stockpile covered - on west side of
 site off landfill cover area.

- appears to have some trash within stockpile

- unknown origin of stockpile at this time

9:50 Borel storage area has large volume of standing water within

- four O'Han / IT employees working on displacing water

- two storage tanks within borel storage area

10:10 Seep area water ponded behind soil berm is being pumped up onto landfill

- causing some erosion

- took picture of outflow

10:30 Starting to see a significant amount of erosion caused by weekend rain

- east side has 6" - 1' cuts

- no waste exposed or eroded at this time

10:45 O'Han / IT rolling / bulldozing along east side of landfill to correct erosion

- much visible standing water in east leachate pit - couple feet of water in middle

- sideslopes on north, east, and west sides of landfill very soggy

- 2 bulldozers and 1 roller working on erosion control

11:10 Talked with Tim Hicks (W-C)

- Heidi is also on-site for W-C

- problems with fusion welding test wet due to dust + sand

- making GSE extension weld a number of failing seam areas at this time

11:30 Air testing (vacuum with soap water) being conducted

- only applying suction for approx 1-1.5 seconds and moving to next point

- asked Tim Hicks to extend amount of time to insure proper seal

12:00 Tim Hicks demonstrated shear test failing on destructive test seam sample

- GSE / W-C / O'Han / IT on lunch

- Tim stated some erosion occurred beneath liner - near seam

- going to cut liner and fix erosion problem
- 13:00 OHH/IT/GSE/W-C off-lunch
- GSE continues to go repair work and QC work on current liner
 - laid down one section (roll of geonet
 - geonet consists of filter fabric (2 layers) with plastic netting between
 - GSE foreman stated geonet will be put together at seams with plastic ties (every 5 ft)
- 13:30 Gray skies to the west and wind speed is picking up
- may rain today
 - GSE trying to finish current panel welding and repair before rain
- 13:40 Tim taking measurements along panels for sizing, dimensions, and # of destructive sampling locations
- 14:00 OHH/IT grading and rolling erodional areas along east side of site
- hauling soil with one truck

- and loading with one backhoe (excavator) as well
- soil dumped in east ~~landfill~~^{DD} storm water retention area
 - soil pushed up onto landfill
- 14:15 Took picture* of vacuum testing along extrusion weld
- GSE continues to haul geonet to top of landfill
- 14:25 Took picture of grinding/roughing patch area for extrusion welding
- 14:30 Geonet being brought to top of landfill is being dragged along ground
- taking two rolls at a time
 - may be compromising geonet by dragging
 - can lift geonet higher or only carry one roll to avoid
- 14:45 Noticed Allen fencing working on - site
- attaching fencing to overhead crossbar
 - working on south side of site
- 15:00 Asked Tim about small stockpile covered by plastic on west side of landfill

between passive gas line #2 + #3
 - does not know origin of leakage
 - will make calls to Robert (W-C) or talked with O'Han/IT

Talked with GSE supervisor about job being done

- stated that smooth liner could be used for whole job
- after repairs are finished on liner currently laid, geonet will be laid down over whole current liner
- worried about rain today - tomorrow
- does not want to get too far ahead with liner if

15:15 (David DeYoung) ^{rain} ^{problem} Weston off-site

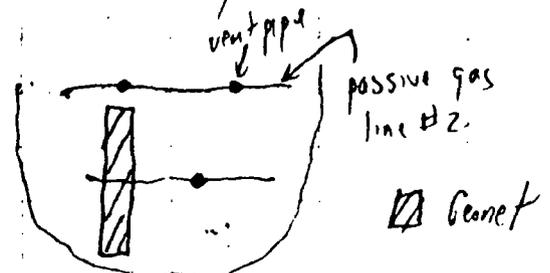
David DeYoung

7-20-99, 72°F, Cloudy

8:15 Weston on-site (David DeYoung)
 - went into O'Han/IT trailer and signed in
 - Jeff Bodi and Mike Geier on-site for O'Han/IT
 - Brian Warner is O'Han/IT S.S.O.

- no one on-site for W-C
 8:30 O'Han/IT operating 2 bulldozers on east side of site (shim water collection trench)

- other ^{heavy} ^{equipment} is idle
 - 3 O'Han/IT employees working on chipping hyd. oil on roller
 8:40 GSE working on west side of land near Southwest corner of landfill,
 - doing extrusion welding and vacuum testing
 - completing various repair work activities
 - only one roll of geonet laid down: see diagram below.



- 8:45 Truck delivery with additional geocast on-site
- OTHM/IT helping GSE unload
- 9:00 Talked with GSE supervisor
- worried about stream generation with water spraying and heavy rains (under liner)
 - does not want to lay down movable plastic sheet between panels to keep moisture out
 - kicks up too much dust
 - suggested a long permanent sheet (not moved)
 - GSE looking into buying large rolls of plastic
- 9:15 went over to barrel storage area
- majority of overpacked barrels are located in standing water
 - non-overpacked barrels are on higher ground now away from standing water
 - gate to barrel storage area still not in place
 - cat pump (with hose leading to storage tank outside barrel storage area is

- being used for flood control in area - pump currently off
- 9:30 Still pumping water from seep area to top of land fill
- using 2 hoses - causing minor erosion problems
 - water-product ~~antibiotic~~^{SP} liquid still seeping from bank
- 9:45 Heidi (W-C) on-site
- concerned about timeframe for laying liner down
 - too much repair work and taking too long
 - large amount of repair work due to fusion welders not working well with cover layer material
- 10:00 Mike (GSE) waiting on surveyors to lay geocast as well
- need to know flap locations
 - once flap locations established, geocast will cut out of that area
- 10:15 Tim Hicks (W-C) on-site
- OTHM/IT on break
 - GSE taking longer time during

vacuum testing as suggested
by Weston.

- GSE picking up scrap and trash from
liner area

10:30 Allen Fence walking on east side
of site

- appear to be placing concrete around
posts

10:45 Walked the base of south side
of landfill and only found the
one (pointed out by Tim Hicks) area
of serious erosion under liner

- area has not been cut
and repaired yet

- O'Han / IT off-break

11:00 Brian Warner taking PID readings
at anchor trenches and gas vent pipes
- no reading at passive gas line #1
vent pipe

- Brian noticed leaking sand bags
on liner (sand + stones) picture*

- need to be removed ASAP

- also wondered why 6x4 ATV
vehicle (GSE) is driving on liner

11:20 GSE pulled back northern-most parcel
of liner and large erosion /
not seen below (east side of landfill)

11:30 Allen Fence workers not wearing safety
glasses but are wearing hard hats
MEC on site surveying

11:40 Half of GSE crew on lunch

- other half working on erosion
problem northeast corner of liner

12:00 O'Han / IT / W-C / remaining GSE employees only

- Hid, (W-C) off-site

- talked with Tim Hicks (W-C)
about leaking sand bag issue

13:00 O'Han / IT off lunch

- bulldozer and excavator working
in west borrow pit

- grading + piling soil on embankments

- one bulldozer also working in east
stormwater collection trench

13:20 GSE working on repairs (extrusion welding)
and vacuum testing

- lots of standing around and
small amount of work being done

- as many as 6 people standing

DD
picture

and talking (with no work) at
a time

13:30 Talked with MEC (surveying)

- surveying area for flap
along liner ^{to} current

- surveying areas north of ¹ liner

13:45 John Peterson (EPA) and 3 MDEQ
officials Nanye Frisch, Wendy Ramirez,
and Mary Schater

- signed in at OTHM/IT trailer
- walked site and looked over

14:45³⁰ EPA and MDEQ off-site
site happenings

- GSE - very little work being done
- continue to stand around

14:45 W-C Tim + Heidi working on
spraying seams to independent 1/2

15:10 Weston off-site (David DeYoung)

David DeYoung

7-21-99, 70°F Cloudy

0930 Hrs L. Korabik arrives
on site and signs in @ OTHM
trailer. Jeff Bode says
that the subs are not on
site. OTHM men are reporting
to work at noon. Heidi
Fredericks and Tom Hoke on site
for WC. All equipment idle so
for this day.

1130 Hrs GSE foreman

(Mike) assessed site conditions
and determined that no
geo-membrane will be installed
today - site is too wet. GSE
will not be on site today.

Heidi and Tim are noting
patch locations on geo membrane

1315 Hrs WC notes patch
locations on geo-membrane
after lunch.

1400 Hrs OTHM is pumping
water from seep area into
north west section of cell.

1430 Hrs Weston - Korabik leaves the site

7/22/99 72°F Cloudy
 0945 Hrs J. Korobka arrives on site; signs in at OHM trailer; faxes 7/21/99 daily report to D. Bhojwani and greets Jeff Cade and Brian O'Doyle.

1000 Hrs J. Korobka observes geo membrane installation activities of GSE crew. Woodward Clyde documents patch locations.

GSE jump down rain flaps at two locations. OHM is pumping water from seep area in north west corner of the cell.

1300 Hrs Mary Schaffer and Wendy Ramirez of the DEQ are on site sampling soil and sediment matrices.

Two surface waters are collected from the seep area and two sediments are collected from the seep area. A sediment is collected from a discolored eroded area west of the

7/22/99 90°F Sunny
 seep hole and a sediment is collected from the drainage area north east of the seep hole. Samples will be analyzed by the DEQ for metals, PNAs, VOAs, Phenols and PCBs. J. Korobka and H. Friedrichs assist the DEQ personnel in the sampling event.
 1500 Hrs Ms. Schaffer and Ms. Ramirez of the DEQ and Tim Hicks of Woodward Clyde leave the site.
 1530 Hrs. J. Korobka leaves the site.

J. Korobka
 7/22/99

7-23-99 75°F, Cloudy

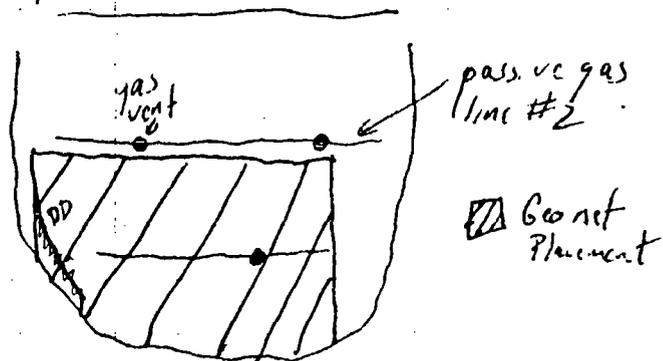
- 9:15 Work on-site. (David DeVosag)
- signed in at O'Hara/ET trailer
 - Heidi Friedrichs and Tim Hicks on-site for W-C
 - working on geonet placement today
 - installed rain flaps yesterday

- 9:30 Went into landfill and made observations on work performed
- rain flaps were installed to liner via extrusion welding
 - geonet gap (approx 4') where rain flap was installed
 - geonet being placed together as sheet in 2 rows
 - plastic netting within geonet is being connected between geonet sheets using plastic ties every 5-10'
 - permeable fabric (black) of geonet being sewn together between sheets
 - GSE along paving rub sheet (30 mil liner material which failed

QA/QC on another job)
going east-west near passive gas line #2

- plastic cut in 10-20ft strips
- laid along next geomembrane fusion weld seam going north

10:00 Below is a diagram showing amount of geonet laid down to this point



10:30 Walked to barrel storage area

- little to no water in area
- gate to area wide open - no water in area

10:50 Secp along north face of landfill (south west corner) is still flowing

- generator supplying power.

- to pump - pumping water to top of landfill
- virtually no water collected behind soil berm - water pumped out
- 11:20 Most of the soil erosion from previous rain has been taken care of
- few areas in northeast corner of site that need attention
 - major portions along north side of landfill need to be rolled
- 11:45 Talked with Tim Hicks (W-C)
- stockpile along west side of landfill covered in plastic (see 7-19-99) is trash-rubbish material discovered when anchor trench was excavated
 - going to ^{take} stockpile and place along north face of landfill - place cover soil
 - still accounting patch work by GSE
 - recorded 243 patches thus far
 - still counting patching in southeast

- corner of landfill
- Tim asked OTHM/IT to begin accounting the remaining anchor trench - not started yet
- 12:00 OTHM/IT } GSE on-lunch
- Carl Brothers onsite dropping off stone for anchor trench cover and placement in front of rain flap
 - placing rock directly on soil - no plastic below
- 12:30 GSE off-lunch
- starting unrolling next sheet of geomembrane liner
 - sheet runs W-E and butts up against ~~passive~~ gas line #2 (southside)
 - first seams to be done with dedicated rut sheet (picture)
- 13:00 Tim Hicks (W-C) stated the erosional area along south side of landfill (near base) was fixed
- cut liner, fixed 6' rut, replaced liner, extension welded seams
- 13:10 Anchor trench completed to passive

gas line #3 on west side
and half way between #2 + #3
on east side of landfill
- may have to fold back liner
if anchor trench not completed
to geomembrane placement area
- Tom (w-c) stated this would not
be a problem

GSE completing test seams before
attempting fusion weld (next seam
to the north)

- noticed diesel gas can (part full)
on liner

- GSE may want to remove from
geocell/geomembrane placement area

13:15 Weston off-site (David DeYoung)

David DeYoung

26 July 1999

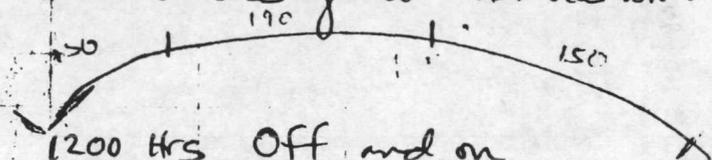
9:30 AM (930 Hrs) Weston on
site.

- Heidi Fredericks and Tim
Hicks on site for w-c

- signed in at OTHM/IT
trailer.

- workers laying geomembrane
panels today

1030 Hrs Ukarab walks the site
and observes geocell installation.



1200 Hrs Off and on
rain on site but panels
are still being laid

1400 Hrs OTHM still
pumping seep hole and placing
water on top of the cell

1450 Hrs WC concerned
over number of patches and
failed vac tests along seams
WC wants ESE to extrusion
weld the failed areas of
the seam.

1500 Hrs Weston leaves the
site for the day

F. K. Brad
7/26/99

27 July 1999 AM=70° PM=86

930 Hrs Weston arrives on site
and signs in at OTM trailer.
Kidi Fredericks and Tim Hicks
of WC are not on site. Mike
Geiser from OTM is present.
GSE crew working on liner
and $\frac{1}{2}$ " cap installation.

1030 Hrs GSE patching area between
panels 47 and 65. No geomembrane
installation today. OTM is
rolling area north of panel
65 and continuing with trench
installation along the east edge
of the cell.

1130 Hrs. GSE is sewing geonet (cloth)
layer from panel 47 south.
WC is documenting panel lengths,
lot # of panels and panel
placement and number.

1230 Hrs. Hot and sunny (high
80's °F) Surveyors will be on
site tomorrow to take readings
around borrows and on
south edge of cell to det

21 July 1999

OTM know if they can start fill operations on the south edge of the cell.

1330 Hrs Tim Hicks says that it appears that OTM can start the filling step on the south edge of the cell on Monday August 2, 1999.

This would be two weeks ahead of schedule.

1400 Hrs Tim Hicks says that the reason GSE was generating so many failed beam sections was because the beam reader operator didn't have the machine set correctly yesterday afternoon.

1415 Hrs OTM continues to pump water from the ~~stump~~ seep hole and place in on top of the cell.

1500 Hrs J. Korobka (Weston) leaves the site.

Linda Korobka 7/22/99

31

7-28-99 80°F, Clear

10:45 Weston - (on-site) David DeYoung
- Mike Geiser on-site for OTM test
- Heidi Fredricks, Tim Hicks on-site

for Woodward - Clyde (VAS-Crien)
11:00 "Walked into landfill and noticed considerable erosion in anchor trench area along south side of site

- took picture of one area
- does not appear at this time to affect liner movement or placement

11:15 Geomembrane has been laid down completely south of panel 21 (30 ft south of passive gas line #2)

- geomembrane panels appear to be locked together with plastic ties as well

- surface of geomembrane has various debris - spots, boxes - need to be removed before next sand layer applied

11:30 MEC surveying on-site

- truck on-site - not visible at this time

11:45 OTHM/IT rolling areas ahead of
geomembrane placement

- bulldozing near edge of west
barrow pit
- pulling soil from east barrow
pit and dumping in east stream
water collection trench \square backhoe
(excavator), 1 truck, 2 bulldozers
- dropping glove soil in area previously
excavated (northwest corner of trench)

11:50 GSE has laid geomembrane in
east-west direction to $\approx 20'$ south of
passive gas line #4

- still having trouble with
fusion welding (welder stopped
and put hole in seam area
while waiting operation)
- continuing to drive 4x6 ATR
vehicle over liner
- currently air testing seams
between P-65 and P-67 panels
- stepped in trench $> 2"$ under
panel P-69
- asked Tim about ^{if} the

trash lines erosion or from
leader fires during geomembrane
placement

- did not know but
said it could be worse

- not planning on fixing
Ground is very soft if leached
by powder fires - should be
rolled out more

Holdi measuring pit panel dimensions
and areas of extrusion (problem
areas) welding

12:10 Looked over anchor trench on west
side of site - no visible trash
observed

- rub sheet under last geomembrane
panel observed (no panel # assigned
at this time)

12:30 Barrel Storage area appears in good
condition

- fence at gate is up and in place
- area is relatively dry
- barrels (not emptied) are on

- high ground
 - after pumped from barrel
 stage area (contained in
 poly tank) is being pumped
 on top of landfill north
 of truck area
 - pump with hoses to poly tank
 located in barrel stage area
- 13:00 Looked over seep area (northwest corner
 of capping area)
 - considerable amount of water ^{pd} behind
 in front of soil berm
 - no pumping of water to top
 of landfill (no pumping setup)
 at this time
 - seep continues to run out of
 re-^{work}ment
- 13:15 OSHA-11 / W-C / GSE off lunch
 - large amounts of peat
 stockpiled on south side
 of site (off landfill)
 Standing water ponded up in
 low area sampled by MDEQ
 officials

13:40 East anchor trench is excavated
 to pass gas line #4
 - no signs of fresh rubble
 - GSE is going to need additional
 trenching done after next
 W-E roll of geomembrane
 is laid down

14:00 Talked with John Nenni
 about obtaining tracking sheets
 or information concerning tracking
 for this month
 - call tomorrow and will have
 information

GSE continues to lay down
 geomembrane

14:15 Weston off-site (Pond Drying)

Pond Drying

7-29-99 Partly Cloudy mid 70's (F-)
 9:50 Hrs Weston on site and signs
 in at OTHM trailer. Heidi Fredericks
 on site for W-C. John Nenni and
 Mike Geiser on site for OTHM.
 10:20 Hrs L Korobka walks the cell
 and notices that approximately
 eight flexible membrane panels
~~has~~ installed yesterday.
 11:30 Hrs L. Korobka and H.
 Fredericks measure panels
 on the north edge of the
 flexible membrane installation
 line.
 12:00 Hrs Tim Hice for WC
 arrives on site. Work shuts
 down for lunch
 1:30 Hrs OTHM is excavating
 in the west borrow and
 moving dump trucks full of
 soil to form a berm along
 the south west edge of the
 cell. WC is measuring
 and numbering geot panels
 at the south west corner of

7/29/99 Sunny 88°F
 the cell. OTHM is backfilling
 trench line along the west side
 of the cell and covering some of
 the liner in preparation
 of rain storms coming out
 of the south west. Wind
 from the south west is
 picking up on top of the cell.
 1400 Hrs GSE is patching
 flexible membrane panels
 installed yesterday. WC
 is meeting with OTHM discussing
 amended schedule for
 cap installation and current
 issues.
 1500 Hrs L. Korobka leaves the
 site.

L. Korobka
 7/29/99

83°F

1/30/99

Sunny - No Clouds

945 Hrs L. Korobka on site.
Signs in @ OTHM trailer and
greet Tim Hicks (WC) and
Mike Geiser (OTHM).

Tim Hicks is working on amended
cap installation schedule. He
is sending this new schedule to
D. Bhojwani and J. Petersen
today.

1045 Hrs L. Korobka observes
GSE membrane patching
activities. WC is documenting
patch number and location.
OTHM is grading along the
east edge of the cell.

1200 Hrs. GSE/WC/OTHM
break for lunch. OTHM
personnel hand in their time
sheets and leave the site
for the day.

1300 Hrs GSE goes back to
work on membrane patching
activities.

1400 Hrs. L. Korobka leaves the site
Linda Korobka 7/30/99

8/2/99

Sunny 68°F

940 Hrs L. Korobka on site.
Signs in @ OTHM trailer.
Tim Hicks, Heidi Fredericks (WC)
and Mike Geiser, Brian
O'Boyle and Jeff Bati (OTHM)
on site.

Work will begin today on
toe drain along south
edge of cell.

1040 Hrs L. Korobka watches
H. Fredericks document
location and number of
patches on panels 65 - 71.
1200 Hrs GSE/WC/OTHM
break for lunch

1300 Hrs OTHM is repairing
erosion damage to
sand on top of liner
at the south edge of the
cell. 3" of rain fell in
a rain event at the site
on Saturday 7/31/99.

1400 Hrs No stone or
pipe have been laid to

2 August 1999

start the toe drain installation,
1430 Hrs OTHM continues to
grade areas at the bottom
of the cell along the south
and east sides. GSE is
laying down plastic liner
for the drain system and
working with geomat.
1500 Hrs. J. Korabla leaves
the site.

J. Korabla
8/2/99

41

3 August 1999 68°F

930 Hrs J. Korabla arrives on
site with N. Fredericks (W.C.),
Jeff Bell (OTHM), John Nordin
(OTHM), Mike Fisher (OTHM)
and Brian O'Boyle (OTHM).
1030 Hrs GSE is laying down
and vacuum testing welds on panels
83-90 of flexible membrane.
1130 Hrs WC is documenting geo
net panel lengths, number and
location.
1200 Hrs GSE/WC/OTHM break
for lunch
1300 Hrs OTHM continues to
work on subdrain/toe drain
installation.
Layer of sand (poor housekeeping)
on panel 80 and 81 next
to weld on panels 82 and 83.
1500 Hrs. J. Korabla leaves
the site.

J. Korabla
8/3/99

8-4-99 75°F, Partly Cloudy
 9:45 Weston on-site (David DeSjoug)

- went into OHM/IT trailer and signed in
- John Neumi on-site for OHM/IT
- Tim Hicks - Heidi Fredricks on-site for W-C

- talked with Tim about site happenings

- no geomembrane placement today
- repair work and cover layer placement (over geonet)

John Symmar + new W-C employee on-site

- walked into landfill and OHM working on south side of landfill

- placing cover layer on top of geonet (picture)

- covering black corr. flexible pipe with stone along rain flap

- soil berm now in place behind rain flap (southside)

10:30 GSE has complete drainage net to area slightly north of passive gas line #2

- geonet has been seen with white string

- walking across geonet - noticed small amounts of debris still present

GSE has laid down geomembrane to an area just north of passive gas line #5

- all geomembrane has been laid down in an E-W direction since the south side of landfill was finished

- quite a bit of sand + gravel located on geomembrane - especially near station areas P81-P82, P89-P90

- continue to drive 6x6 vehicle over surface of liner (GSE)

- talked with Heidi (W-C) and she stated red sheets have helped with fusion welding ~~issues~~ issues (said, vehicle)

- walking over liner and found areas below liner where GSE loader has driven to roll out liner

- has made undulating surface ~~DP~~ ~~DD~~ ~~DD~~ ~~DD~~ 72" panels P-63 ~~66~~ P-67
- southeast corner of panel P-65 ^{DD} has very uneven surface - area varies in relief 6-8" in ^{DD} places
- southeast corner of ~~DP~~ panel P-65 has uneven surface as well (72")
- talked with Heidi and she stated areas R-16, P-65 were the result of erosional problems - asking Tim Hicks about possible fix

11:30

Seep still flowing from northwest corner of site

- pump + generator still in place for pumping liquid to top of land fill
- water (liquid) level very low ^{in DP} behind ~~the~~ front of soil berm - must have just pumped out liquid

11:45

No water or new barrels in barrel storage area

12:00

OHM / IT taking soil from east ^{west} ~~east~~ ^{DP} borrow pit for cover layer over geonet

- GSE / OHM - JT / W-C on lunch
- Heidi off-site

12:30 Talked with Paul Bartz (Weston-Oleary)

- wants myself (DD) to attend site meeting in Lansing for another job - calling Deepak about schedule

waited for approximately 3-5 minutes

1:00 Weston off-site ^{DD} (David DeYoung)

David DeYoung

8-5-99 75°F Clear

47

8:30 Weston on-site (David P. Young
- Jeff Bodi on-site for OMM/IT
- no one on-site for W-C

8:45 OMM/IT working on placing cover layer
over geonet on south side of landfill
- using 2 bulldozers and two
trucks on landfill - one excavator
in west borrow pit

- bulldozer has built ramps
2-3 ft high for trucks to
drive over geonet

- bulldozer pushing soil in front of
them and avoiding contact with geonet

- some debris found in cover layer
soil (picture*)

- pieces of aluminum pipe and bricks
found in cover layer soil

- pieces of geomembrane (probably
scrap) found in cover layer
material as well

9:30 GSE working on geonet placement
- using 6x6 vehicle (rubber tires)
to drag geonet over geomembrane
- working in area about half way

between passive gas line #2 and #3
continue to the end, sew geonet
together (picture*)

Went to north seep area

- seep still flowing

- liquid still contained by soil berm

- liquid still being pumped to
top of landfill for infiltration

- currently pumping liquid and
no liquid standing in front
of soil berm

9:50 Walked along north and west fence line
and inspected work

- in places, the fence is up approx
12" off ground - people animals
could get into landfill

- no barbed wire overhead fence
area

- attaching fence to posts only has
minor amount of problems with
too few ties in a limited
number of spots

Area in west borrow pit where
soil is being removed (southwest corner)

is much coarser than other material
seen on walls of borrow pit

-roadway for trucks to enter west
borrow has been created (picture*)

11:30 Talked with Heidi (W-C) about
site happenings

- Tim Hicks should be on-site today
- talked about fence and trash in
cover layer material
- going to continue to lay geonet
up to passive ge line #4 today

11:50 Starting to cloud up in sky
and getting hotter

12:00 GSE / OTHM-IT / W-C on lunch

- Heidi (W-C) off-site
- Weston off-site to buy new
field notebook

12:40 OTHM-IT off lunch

- continuing to load up soil
and apply to geonet on south
side of landfill
- using one excavator, one bulldozer,
and two trucks

13:00 -next book Avery 80 page Record Book

8-5-99 Continued

13:15

Heidi (W-C) back on-site

- GSE off lunch

- working on placing geocell down

- W-C / GSE working with field tensiometer

- testing (destructive) been done - all tests for d-21 passed with numbers over 57

- still using box to roll out geocell

13:45

MEC on-site surveying

- surveying areas along east side of site (off linear area) at this time

14:00

OHAN/IT spraying water on truck paths

14:15

Heidi (W-C) stated that air testing is behind at this time - only due to passive gas line #4

- marking out additional destructive sample areas - every 180 ft

15:00

Weston off-site (David DeYoung)

David DeYoung

8-6-99

65°F Partly Cloudy

8:30

Weston on-site (David ReYoung)

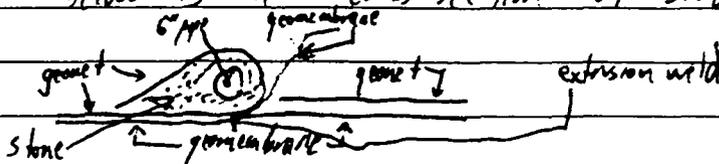
- went into CHM-IT trailers and signed in
- Jeff Bodi and Mike Geiser on-site for CHM-IT

- do one on-site for W-C

8:45

Went into landfill and made observations

- inspected landfill subdrain along south side of landfill (picture*)
- below is a cross-section of subdrain



- cover soil layer is placed on top of subdrain

9:00

CHM-IT is working on placing 1/2" cover soil layer unit in southeast corner of landfill

- using 2 trucks, 1 excavator, 1 bulldozer
- taking soil from west borrow pit

9:15

Areas in south east corners of P-65 + P-166 panels (concrete surface) have not been collected

- area is close to being covered by geonet
- continue to see small pebbles and sand on liner area

- need to wash down surface

- perform better house keeping

9:15

GSE currently fusion welding P-94 + P-95 to panel located to north

- also putting rub sheet down for next seam to be welded (north of current weld)

9:30

Inspected anchor trench along east side of landfill

- small amounts of trash in western bank
- took pictures* of trash and progress of fashion anchor trench

9:45

Took picture* of overall site activity progress

10:00	<p>Seep at end of passive gas line #7 - north west corner of landfill is still flowing</p> <ul style="list-style-type: none"> - OTHW-IT continues to pump liquid to top of landfill using electric pumps - guaranteed
10:15	<p>Inspected western another trench for rubbish/debris</p> <ul style="list-style-type: none"> - stockpile left next to trench revealed tires and other misc. debris (picture*) - areas at west side of trench have back rubbish between passive gas line #5 and #6 - evidence that trash (unknown amount) at this time will be present beyond current liner
11:00	<p>Looked over liner installation</p> <ul style="list-style-type: none"> - having less trouble with fusion welding - probably due to use of rub sheets - GSE also conducting air testing on fusion welds - GSE (Jeremy) also working on field fusionmeter
11:30	<p>Tim Hicks (W-C) on-site</p> <ul style="list-style-type: none"> - David D-Young started labeling pictures for monthly report - OTHW-IT on lunch
12:00	<p>GSE/W-C on lunch</p> <ul style="list-style-type: none"> - Heidi F. + Tim Hicks off-site for lunch - OTHW-IT off lunch - using 3 trucks, 1 excavator, 1 bulldozer, and 1 roller to install geotext layer on south-east side of site - using water truck to control dust on truck paths
12:50	<p>Took picture* of methane pocket forming under liner near passive gas line #4 (top of landfill - near vent pipe)</p> <ul style="list-style-type: none"> - and W-C and GSE off - lunch - starting to work on geomembrane placement again
13:15	<p>OTHW-IT employee smoking a cigarette while rolling areas next to liner</p>

14:00

GSE performed test seams with 2 fusion welders
Tim Ecks told GSE to redo seam near end
of P-101 geomembrane panel

14:30

GSE unrolling geomembrane panel north of P-101
geomembrane panel
- Heidi (W-C) off-site

15:00

Weston off-site (David R Young) on landfill doing observation

David R Young

9 August 1997 Sunny 65°F Am

1050 HRS Weston (& Korabik) on sites & Korabik signs in at the OTHM trailers and greets Tim Hicks
1130 HRS & Korabik walks the cell. OTHM/IT workers are installing the drain along the ^{east} west side of the cell. Also OTHM/IT workers are moving sand to 18" depth along the south ^{east} ~~west~~ side of the cell. GSE workers are laying geotext and sewing seams. GSE has installed up to panel # 105 on the ^{east} west edge of the cell. Trenching on ^{east} west side of the cell to re-panel 120's location. Small amount of water in seep at north west corner of cell. This water could be left over from weekend rain even (It rained on site Saturday) but the rest of the area is dry. Some water has also pooled in the temporary road just west of the seep. Fencing contractor has installed some barb wire on top of fence at northwest corner of property. IT/O THM filling dump trucks with sand from west borrow pit for use on site - to drain installation and 18" cover task.

1145 HRS & Korabik meets with DEQ personnel and walks the site going to seep area to take photos.

Weston and DEQ walk the perimeter of the cell and observe considerable erosion (in 4 separate areas) on the west side of the cell from about panel 81 to 105. Weston and the DEQ document this erosion with photographs. Mary Schaffer and Margie Pritch are the MOEQ representatives.

1230 HRS MOEQ and Weston leave site for lunch

1330 HRS Weston is on site observing capping activities and taking photographs.

1515 HRS & Korabik leaves site for the day.

Linda Korabik

8/9/97

8-10-99, 60°F, windy 10-20mph W, cloudy

9:40

Weston on-site (David Th Young)

- went into OHH/IT truck and signed in
- Tim Hicks (W-C) talking with John Nenni and Mike Geiser (OHH/IT) about crash along T-94 in Albion

10:00

Weston went into landfill and made observations

- quite a bit of water ponded on the surface at site - surficial soils very wet
- bulldozer stuck in west borrow pit (picture*) due to moisture content of soil

10:15

Observed K&D 22 x 9 (seven pieces or 3 pieces) dumpster up to barrel storage area

- dumpster empty at this time
- bottom of dumpster lined with plastic and top of dumpster covered by black tarp
- all barrels and over packed barrels appear to be inside barrel storage area at this time

small amount of ponded water in barrel storage area no danger of overflow or spillage of storm water to area outside lined barrel storage area at this time

10:40

Talked with Mike (GSE) - no other GSE employees observed on-site

- wetness and wind is not stopping work, but lack of rain flap markings by surveyors on geomembrane (west side of site) is preventing geonet placement

- rain flap near center of landfill marked and flap extension welded already

11:00

OHH/IT pumping water out of seep (northwest corner of landfill) storage area (in front of soil berm) and pumping to top

of landfill

- greenish colored water found ponded behind soil berm (left hand area)
- silt fence used to prevent sediment runoff in area has failed
- water runoff and sediment has ^{DP} seeped into wooded area to west of seep and liner area

11:15

Areas along ^{DP} south north side of landfill where geomembrane liner has not ^{DP} been placed - no serious erosion problems

- minor ruts but nothing cutting into fresh rubbish layer
- drainage off north slope is still into northern low area - recently graded out

11:30

Bigger erosion problems on east side of landfill

- 16"-24" cuts into soil with significant erosion into storm water retention area
- some cuts have exposed trash and washed trash - areas off geomembrane placement east of anchor trench
- one cut has drainage pipe exposed - no drainage occurring from pipe - only from soil to the south of pipe (picture*)

12:00

Went into WC trailer and discussed issues with Tim Hicks

- reconsolidating trash on east side of landfill tomorrow
- GSE will not working today due to early day rain and predicted rain later in day
- going to be shipping drums, contents of drums, sand within barrel storage area and any associated soil soon
 - shipping and disposing as hazardous (high TCE, lead, Cd, etc)
 - John Peterson approved anal. for barrel disposal via John Seymour

- Tim stated^{PP} that a methane fire occurred on east side of site during air testing activities yesterday - reported to John Peterson
- Tim stated that analytical samples collected at seep by Heidi (W-C) were run for VOCs, PHAs and PCBs and nothing was identified as hazardous
- Heidi^{PP} W-C has not heard from MDER about their sampling results of seep yet

13:00

Only equipment (O'Han-IT) remaining today thus far was the bulldozer stuck in the west borrow pit and one bulldozer (also in west borrow pit)

13:15

LWD Inc. of Calvert City, KY on-site to pick up 2 drums

- Truck #123, Lic. Plate #9MN-922 (KY)
- Tim Hicks signed manifest
- O'Han/IT loaded drums into bed on trailer on Level D
- Pictures* taken of loading process
- Tim stated these barrels were from a previous work effort, separate from remaining drums in drum storage area

13:45

LWD Inc. truck off-site

- Manifest stated that the waste was to be hauled and disposed of in Calvert City, KY

13:50

Nelson went back into landfill and made observations

- Only O'Han-IT equipment remaining in one bulldozer working in west storm water collection trench
- GSE sitting on line waiting for Tim (W-C)
- rain flap installation to occur today
- one flap (top of landfill) was installed in a zig-zag slope and not a straight line. Flap will have to be replaced
- GSE (Jeremy) stated that rain flap work

14:30 (w) the only work spec'd out for dry
Area under panel P-98 geomembrane area (2-3
panels to north and south) has an irregular surface
below it

- not in good condition ~~is~~ ^{is} - may be from
erosion over weekend - water getting between
panels - through welds

- suggested the geomembrane be taken up and
area reworked to Jim (WC)

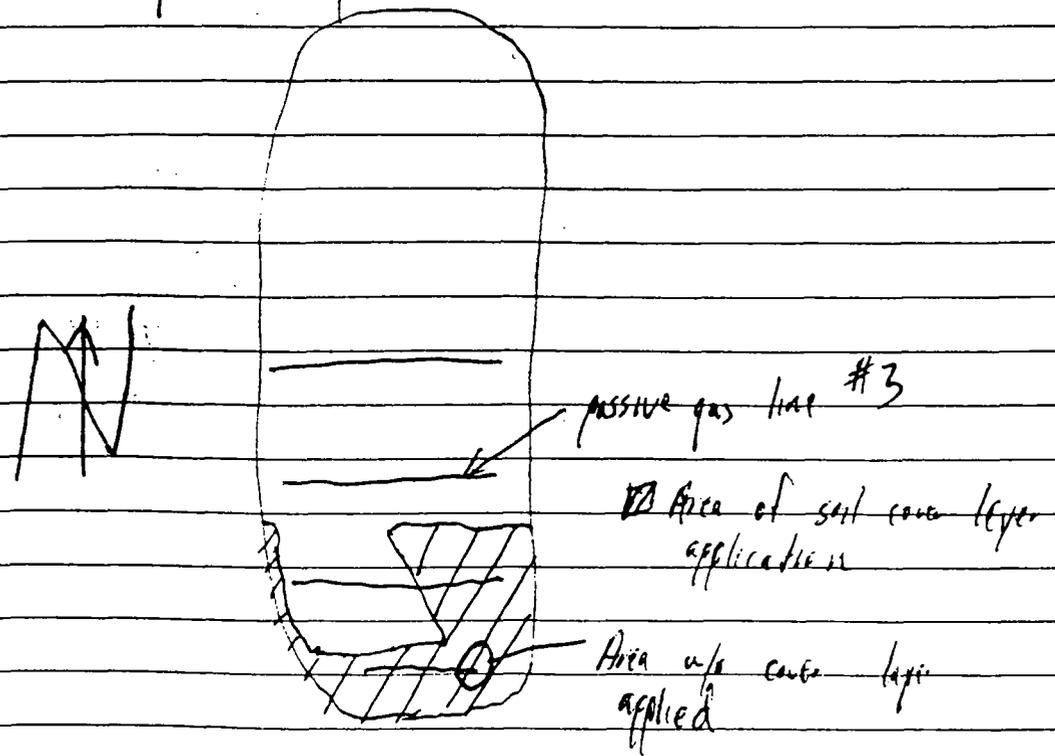
14:50 Weson off-site (David DeYoung)

David DeYoung

8-11-99 75°F Partly Cloudy etc wind

11:00 Weston on-site (David DeYoung)
- John Glenni and Jeff on-site for OTHM-ET
- Tim Hicks on-site for IFS-Greener-Woodward-Clyde (W-C)
- signed in at OTHM/ET trailer
- walked into landfill and made observations

11:15 OTHM-ET using 3 trucks, 2 bulldozers, and 1 excavator for the removal of soil from west borrow pit and application of soil as cover layer near southwest corner of landfill and soil berm behind rain flap (west ^{on} bottom edge of landfill - near passive gas line #3)
- took picture* of soil berm and grading on west side of landfill
- below is a diagram of completed soil application (18" layer) along south side of landfill



11:30 Talked with Brian Warner (O'Boyle) about current site happenings

- stated a methane fire had occurred on last Friday after 5:00 PM

- fire occurred near panel F-103 + P104 when torch was lit for air testing purposes

- GSE grabbed fire ext (CHM-IT) was seep area and put out fire

- the fire burned a hole in the liner

- liner was replaced on Monday or Tuesday morning

11:45 Walked over to geomembrane placement area and GSE going to lunch

- working on vacuum box testing, air test, and liner repair

- new rolls of geomembrane near edge of current rolled out geomembrane - but sheet in place for next line of geomembrane

12:00 Went over to seep area and took picture* of current seep collection setup

- same soil berm, pumps, and generator

- pumping seep liquid into green container off liner area for storage

12:15 Talked with Tim Hicks (W-C) and he stated that seep was to be covered per John Peterson (EPA) and Mary S (MDEC) after lunch

- Tim stated that if water collected in anchor trench (when excavated in seep area) that the water would be pumped out and contained

- If a seep develops off liner area due to covering of current seep, french drain will be installed with a liquid collection basin for storage

- Tim wanted Weston to come out to east side of landfill and inspect test pit in area where trash/rubbish was observed by Mary Schaffer and other MDEQ officials after lunch - wants Weston to witness that all trash in this area is under liner

OHM/IT on lunch

12:30

Weston filled out daily report

- GSE / OHM - IT off lunch

13:15

Weston went over to area along east side of landfill where MDEQ officials spotted trash in sediment/water runoff area

- Tim (W-C) asked OHM/IT to remove surficial trash/rubbish

- dug two test pits in areas with greatest amount of trash on surface (approx 10-20 ft away from each other)

- only soil found from the surface to approximately 5-6 ft below grade

- OHM - IT continued to pickup trash and rake area for additional trash below surface

13:50

OHM/IT covered up seep with gas collection layer soil (picture #)

- destroyed soil berm for seep

- graded out remaining area

14:20

Brian Warner taking PID and C₁/LEL reads along west side of landfill in area of 410 ft (near passive gas line #5-#6)

- getting 20% LEL and told GSE not to do air testing until levels went down

15:00

GSE continues to lay down geomembrane

just south of passive gas line #6

- using rock sheet when fusion welding
- surface below area of geomembrane placement appears to be in good condition - no ruts
to 2" - front end loader tracks the only markings on ground surface

15:30 Tom - Hicks (w-c.) stated that the gasket track has been moved further west along west side of landfill due to flash fire & found in burned - methane fire area

- area between passive gas line #5 - #6
- Brian wants contraves to take readings under geomembrane in this area
- Brian lifting geomembrane to ^{open} ventilate area below

16:00 Weston off-site (David DiYang)

8/11/99

12 August 1999 70°S Sunny

1030 hrs J. Korobk on site and signs in at OHM trailer and greets Jeff Bodi of OHA. J. Korobk discusses today's work schedule with Tim Hicks. Tim says OHM is removing drums from drum storage area. GSE has run out of flexible membrane and expects their last shipment the beginning of next week.

1130 hrs J. Korobk begins site tour. She notices irregular looking erosion at the south west corner of the cell at the main drainage pipe and takes a photo. Rolls of flexible membrane have been moved to the west side of the cell and stone for the drain installation is piled along the cell just north of the monitoring well nest.

1200 hrs J. Korobk takes photos of the drum storage area. Seven over pack drums are in the fenced area. One crushed drum is laying near the excavator. A roll of GSE is pulled to the entrance of the drum holding area and is filled with crushed overpack drums. J. Korobk can not see any markings on the overpacks that have yet to be crushed. The drums are numbered and have the hard fill address but J. Korobk sees no markings to say hazardous or Non-hazardous. J. Korobk notes that the flexible panels have been laid all the way to the anchor trenches as far north as the northern edge of the cell.

12 August 1999

Barb wire is still only found in north west corner of cell. ABC fire extinguisher on cell at panel #114. Since fire on 8/7/99 (Saturday) GSE is being cautious when working to cover the hot bit of the cell.

L. Korobk goes to area of cup (it has been covered with flexible membrane) and looks for break through off of the cell to the west. L. Korobk smells strange-like odor but can see no break^{thru} break through yet.

1215 Hrs Area at the north end of the cell has been cleared of large trees and vegetation and has a clean line.

Panel 123 is the last panel laid on the east edge of flexible membrane.

1230 Hrs Erosion areas from Maday's site have not been repaired yet.

1345 Hrs It begins to rain on site. Work does not stop because there is no thunder or lightning so there is no apparent danger to workers on site.

1500 Hrs L. Korobk leaves the site for the day.

L. Korobk
8/12/99

8-13-90, 75°F, Cloudy

9:45

Weldon on-site (David Young)

- went into OHM/ET trailer and signed in
- talked with Jeff Bodi about site happenings
 - Apply soil cover layer
 - GSE not working today & no geomembrane and weather not permitting
- no one on-site for W-C

10:00

Surface of landfill area very wet - rain from last night

10:10

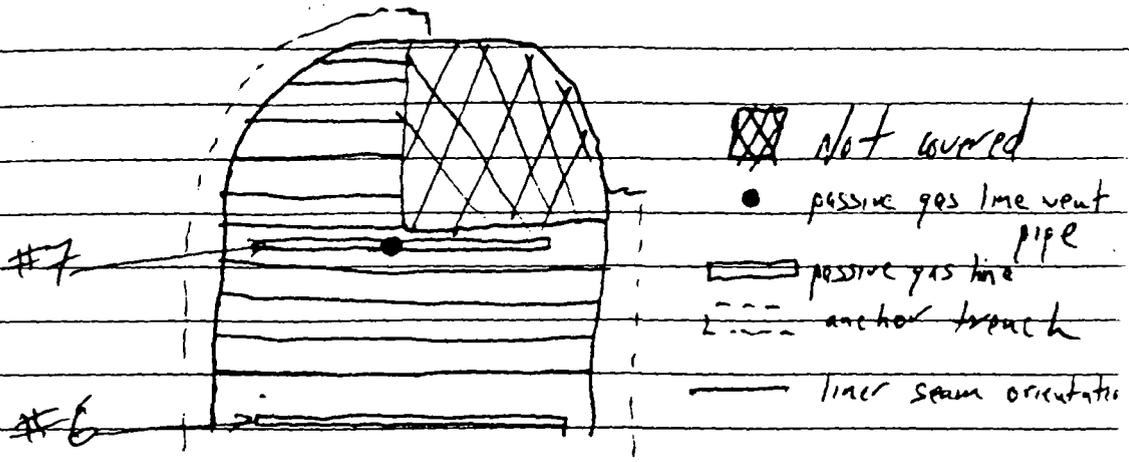
Walked around landfill and made observations

- OHM-ET pulling soil from west borrow pit and placing on landfill - wet side of landfill near passive gas line #2
- O'Fallon also removing soil from borrow storage (soil on top of layer) and placing on north face of landfill (near passive gas line #7 vent pipe)
- O'Fallon using an excavator, one truck, and one bulldozer for cover layer soil layer
- O'Fallon using an excavator, and one truck for borrow storage area soil removal and transport
- Dumpster is still present outside borrow storage area
 - large piece of clear plastic laid over black tarp which covers dumpster
 - did not inspect dumpster for safety reason
 - dumpster cover should be taped off for safety reasons

11:30

Inspected geomat and geomembrane areas completed by GSE

- geomembrane has been placed in a west-east direction along north face of landfill (picture*)
- below (next page) is a diagram showing liner orientation and current work done



12:00 Mike (GSE) on-site
 - asked him why geomembrane was laid in W-E when liner should be laid parallel to greatest slope
 - Tom (W-C) wanted to get seep area covered fast and W-E orientation was the quickest

12:30 No barrels observed in barrel storage area
 - empty overpack barrels are located along south side of site near former residence

13:00 No seep observed in embankment (within wooded area) west of former seep area
 - asked Mike GSE if seep liquid was observed when anchor trench was excavated along north west corner of landfill - answered with "not too much"

- no seep liquid in anchor trench was collected while anchor trench was open
 - GSE working on air testing, extrusion welding of patches, general repair work

13:30 OHM-IT continues to haul soil for cover layer (to and haul soil from barrel storage area (to area on landfill not covered by liner)

13:50 Walked over to barrel storage area and truck with rolloff in area
 - talked with driver and stated he was

picking up rolloff and dropping one off
- Truck #706 of Inland Waters -
license # R14215B was truck hauling
rolloff

20

14:15

Went down to OHWI-IT trailer and
looked at manifest

- using MI 4215090 manifest number
- shipping to Birkville landfill
- material was listed as hazardous solid

14:30

Inland Waters off-site

14:40

Weston off-site (David D Young)

David D Young

ATTACHMENT B

DAILY REPORTS

To: Deepak
From: David P. Young

Fax: 847-918-4055

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
PROJECT: Albion-Sheridan Landfill
Albion, Michigan

DATE: 7-19-99
REPORT NO.: 53

WESTON WO NO.: 20064.003.100.8010
USEPA CONTRACT NO.: 68-W7-0026
WORK ASSIGNMENT NO.: 003-ROBF-05AN
ON-SITE RFW REPRESENTATIVE: David C. DeYoung
SITE MANAGER: Deepak L. Bhojwani

WEATHER: Fair Cloudy Clear [] Inches/Rain
TEMPERATURE: Low [78] High [85]°F

MEETINGS: MEEINGS HELD Tim Hicks (w-c) small plastic covered stockpile located on west side of landfill - wondered about origin - Tim does not know source - stockpile not present on Friday 7-16-99
Mike (GSE) - worried about steam coming under ^{current structure} geomembrane line with water truck spraying water on areas under before liner placement and additional rain received before liner placement

REFERENCE SPEC, DWG, ACTIVITY #	WORK PLANNED TODAY, LOCATION OF WORK
Geomembrane OC activities	perform shear + peel tests on seams vacuum tests of seams
Geomembrane Seams + Structure	fix area of vacuum on liner
Fixing Repair	
Geonet placement	start geonet placement on liner
Bulldozing/Rolling of landfill surface	work on correcting erosion along east side of landfill

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
PROJECT: Albion-Sheridan Landfill
 Albion, Michigan
DATE: 7-19-99
REPORT NO.: 53
WESTON WO NO.: 20064.003.100.8010
USEPA CONTRACT NO.: 68-W7-0026
WORK ASSIGNMENT NO.: 003-ROBF-05AN
ON-SITE RFW REPRESENTATIVE: David C. DeYoung
SITE MANAGER: Deepak L. Bhojwani

REFERENCE SPEC, DWG, ACTIVITY #	WORK PERFORMED TODAY LOCATION OF WORK
Geomembrane QC activities	perform show prep! tests on smooth-textured seams vacuum test all extrusion weld areas
Geomembrane Seam & Fracture Repair	fix areas of concern on liner - mostly seams with fusion weld are also ^{getting} being extrusion welded
Geonet Placement	One roll of geonet laid parallel to slope (south side of landfill)
Ballast/Railbag of landfill surface	work on correcting erosion along east side of landfill

SCHEDULE STATUS: TYPE AND AMOUNT OF WORK DONE vs. SCHEDULED WORK

With fusion welding not as effective as anticipated - amount of time needed for geomembrane placement is increasing
 schedule for geonet placement falling behind as well

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
 PROJECT: Albion-Sheridan Landfill
 Albion, Michigan
 WESTON WO NO.: 20064.003.100.8010
 USEPA CONTRACT NO.: 68-W7-0026
 WORK ASSIGNMENT NO.: 003-ROBF-05AN
 ON-SITE RFW REPRESENTATIVE: David DeYoung
 SITE MANAGER: Deepak L. Bhojwani

DATE: 7-19-99
 REPORT NO.: 53

INSPECTIONS: INSPECTIONS PERFORMED, DEFICIENCIES OBSERVED, ACTION PROPOSED, ACTION TAKEN

- (1) Shrinker from barrel storage area being pumped into storage tank. Liquid from sump (north side of landfill) being pumped to top of landfill for mobilization - causing some erosion
- (2) Lots of erosion from weekend rain, especially on east side of landfill - no erosion cuts into waste material
- (3) Fusion welding of seams not incredibly successful - sand, dust gravel getting inside seam - not using plastic sheet under seams
- (4) vacuum testing is not being adequately done - tests are only lasting 20-30 seconds per test -> spec calls for 15 seconds

QUALITY CONTROL TESTS BY CONTRACTOR:

- W-C measuring size and dimensions of panels (geomembrane)
- W-C making up destructive test samples
- W-C running shear & peel tests on seams

Erosion
 occurred under
 by embankment
 SE dragging
 of ground - may
 compromise integrity
 prevent

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston **DATE:** 7-19-99
PROJECT: Albion-Sheridan Landfill **REPORT NO.:** 53
 Albion, Michigan
WESTON WO NO.: 20064.003.100.8010
USEPA CONTRACT NO.: 68-W7-0026
WORK ASSIGNMENT NO.: 003-ROBF-05AN
ON-SITE RFW REPRESENTATIVE: David C. DeYoung
SITE MANAGER: Deepak L. Bhojwani

REMARKS: IDENTIFY SAFETY CONCERNS, SITE VISITORS,
<i>Altera Fence - on site</i>

SIGNATURE: David C. DeYoung
NAME: David C. DeYoung
DATE: 7-19-99

To: *Keepat*
 From: *David DeYoung*

DAILY OVERSIGHT REPORT

Fax: *847-918-4055*

PREPARED BY: Roy F. Weston
 PROJECT: Albion-Sheridan Landfill
 Albion, Michigan
 WESTON WO NO.: 20064.003.100.8010
 USEPA CONTRACT NO.: 68-W7-0026
 WORK ASSIGNMENT NO.: 003-ROBF-05AN
 ON-SITE RFW REPRESENTATIVE: *David C DeYoung*
 SITE MANAGER: Deepak L. Bhojwani

DATE: *7-20-99*
 REPORT NO.: *54*

WEATHER: Fair Cloudy Clear [] Inches/Rain
 TEMPERATURE: Low *[72]* High *[85]* °F

MEETINGS: MEEINGS HELD

Mike (GSE) - looking into bringing large rolls of plastic for dedicated sub sheet (sheet below seams during fusion welding)
Heidi (W-C) too much repair work on current liner being done
EPA (JP) and MDER officials went over site approvals with Tim Hicks, Heidi F (W-C), and Paul D (Weston)

REFERENCE SPEC, DWG, ACTIVITY #	WORK PLANNED TODAY, LOCATION OF WORK
<i>Billdozing / Rolling of landfill surface</i>	<i>work on correcting erosion along east side of landfill</i>
<i>Geomembrane QC activities</i>	<i>vacuum testing along extrusion weld areas - RD clean off debris (scrap liner, etc) on liner/VD</i>
<i>Geomembrane Seam + Puncture Repair</i>	<i>fix areas of concern on liner</i>

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston **DATE:** 7-20-99
PROJECT: Albion-Sheridan Landfill **REPORT NO.:** 54
Albion, Michigan
WESTON WO NO.: 20064.003.100.8010
USEPA CONTRACT NO.: 68-W7-0026
WORK ASSIGNMENT NO.: 003-ROBF-05AN
ON-SITE RFW REPRESENTATIVE: David C. Pejung
SITE MANAGER: Deepak L. Bhojwan

REFERENCE SPEC, DWG, ACTIVITY #	WORK PERFORMED TODAY LOCATION OF WORK
Bulldozing/Rolling of landfill surface	fixing landfill and stormwater area surface ^{problems caused} from PD
Geomembrane QC activities	^{DP} vacuum testing along extrusion weld areas cleaned scrap liner, stakes, and ^{various} unneeded equipment from liner surface
Geomembrane Seams/Patches Repair ^{DP}	fix areas of concern on liner

SCHEDULE STATUS: TYPE AND AMOUNT OF WORK DONE vs. SCHEDULED WORK

liner (geomembrane) and geocel placement very slow due to amount of repair work

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
 PROJECT: Albion-Sheridan Landfill
 Albion, Michigan

DATE: 7-20-99
 REPORT NO.: 54

WESTON WO NO.: 20064.003.100.8010

USEPA CONTRACT NO.: 68-W7-0026

WORK ASSIGNMENT NO.: 003-ROBF-05AN

ON-SITE RFW REPRESENTATIVE: David C. DeYoung
 SITE MANAGER: Deepak L. Bhojwanj

INSPECTIONS: INSPECTIONS PERFORMED, DEFICIENCIES OBSERVED, ACTION PROPOSED, ACTION TAKEN

- (1) Contrary to pump sump water to top of landfill for infiltration - no water getting through soil berm (barrier to off-site landfill liner-area)
- (2) Time increased to inspect welds via vacuum test (3-4 seconds) by GSE
- (3) Brian Warner taking PID, O₂ LEL readings at passive gas line vents
- (4) Leaking sand bags (sand+gravel) on liner - GSE box vehicle still driving on liner

QUALITY CONTROL TESTS BY CONTRACTOR:

Field Ex some samples to independent laboratory as specified in Work Plan (W-C)

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston **DATE:** 7-20-99
PROJECT: Albion-Sheridan Landfill **REPORT NO.:** 54
 Albion, Michigan
WESTON WO NO.: 20064.003.100.8010
USEPA CONTRACT NO.: 68-W7-0026
WORK ASSIGNMENT NO.: 003-ROBF-05AN
ON-SITE RFW REPRESENTATIVE: David C DeYoung
SITE MANAGER: Deepak L. Bhojwani

REMARKS: IDENTIFY SAFETY CONCERNS, SITE VISITORS,

Truck delivery of gravel
 Allen Fence on-site - not wearing safety glasses
 MEC (surveyors) on-site - marking rain flap locations on liner
 EPA (John Peterson) and MDEC (Aluge Frisch, Wendy Ramirez, and Mary
 Schaefer) on-site

SIGNATURE: David C DeYoung
NAME: David C DeYoung
DATE: 7-20-99

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
PROJECT: Albion-Sheridan Landfill
 Albion, Michigan
WESTON WO NO.: 20064.003.100.8010
USEPA CONTRACT NO.: 68-W7-0026
WORK ASSIGNMENT NO.: 003-ROBF-05AN
ON-SITE RFW REPRESENTATIVE:
SITE MANAGER: Deepak L. Bhojwani

DATE: 21 July 1999
REPORT NO.: 55

WEATHER: Fair Cloudy Clear [] Inches/Rain
TEMPERATURE: Low [] High [] °F 72 °F

MEETINGS: MEEINGS HELD

L. Korobk arrives on site and meets with Jeff Boda
 of OHM and Heidi Fredericks and Tom Hicks of
 Woodward Clyde.

REFERENCE SPEC, DWG. ACTIVITY #	WORK PLANNED TODAY, LOCATION OF WORK
Liner Installation	GSE foreman on site to study conditions. Rain occurrence during early A.M. GSE decides it is too wet to work today.
Fence Construction	Fencing contractors are on site for a few hours working on fence at south west edge of fencing area.

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston **DATE:** 21 July 1999
PROJECT: Albion-Sheridan Landfill **REPORT NO.:** 58
Albion, Michigan
WESTON WO NO.: 20064.003.100.8010
USEPA CONTRACT NO.: 68-W7-0026
WORK ASSIGNMENT NO.: 003-ROBF-05AN
ON-SITE RFW REPRESENTATIVE:
SITE MANAGER: Deepak L. Bhojwani

REFERENCE SPEC, DWG, ACTIVITY #	WORK PERFORMED TODAY LOCATION OF WORK
<i>Liner</i>	<i>Woodward Clyde personnel document</i>
	<i>locations of patches across geo-membrane.</i>
	<i>OHM pumps out water from</i>
	<i>deep area along north west section of</i>
	<i>the cell.</i>

SCHEDULE STATUS: TYPE AND AMOUNT OF WORK DONE vs. SCHEDULED WORK

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
PROJECT: Albion-Sheridan Landfill
Albion, Michigan

DATE: 21 July 1999
REPORT NO.: 55

WESTON WO NO.: 20064.003.100.8010

USEPA CONTRACT NO.: 68-W7-0026

WORK ASSIGNMENT NO.: 003-ROBF-05AN

ON-SITE RFW REPRESENTATIVE:

SITE MANAGER: Deepak L. Bhojwani

REMARKS: IDENTIFY SAFETY CONCERNS, SITE VISITORS,

SIGNATURE: Linda Korobka
NAME: Linda Korobka
DATE: 21 July 1999

DAILY OVERSIGHT REPORT

PREPARED BY:	Roy F. Weston	DATE: 7/22/99
PROJECT:	Albion-Sheridan Landfill Albion, Michigan	REPORT NO.: 56
WESTON WO NO.:	20064.003.100.8010	
USEPA CONTRACT NO.:	68-W7-0026	
WORK ASSIGNMENT NO.:	003-ROBF-05AN	
ON-SITE RFW REPRESENTATIVE:		
SITE MANAGER:	Deepak L. Bhojwani	

WEATHER: Fair Cloudy Clear [] Inches/Rain
TEMPERATURE: Low [] High [] °F 89°F Humid

MEETINGS: MEEINGS HELD

L. Korolik — arrives on site and greets Jeff Bodi and Brian O'Doyle

REFERENCE SPEC, DWG, ACTIVITY #	WORK PLANNED TODAY, LOCATION OF WORK
Liner Installation	GSE is working on rain flaps for drainage pipes; geo net installation Woodward Clyde documents patch locations and points out a few new areas to patch.
	Mary Schaper and Wendy Ramirez of the DEQ sample for sediment

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston **DATE:** 7/22/99
PROJECT: Albion-Sheridan Landfill **REPORT NO.:** 50
Albion, Michigan
WESTON WO NO.: 20064.003.100.8010
USEPA CONTRACT NO.: 68-W7-0026
WORK ASSIGNMENT NO.: 003-ROBF-05AN
ON-SITE RFW REPRESENTATIVE:
SITE MANAGER: Deepak L. Bhojwani

REFERENCE SPEC, DWG, ACTIVITY #	WORK PERFORMED TODAY LOCATION OF WORK
	and surface water at the seep hole - west of the seep hole and from the drainage area north west of the seep hole. Samples will be analyzed for metals; PNTAs; VOCs; phenols and PCBs by the MDEQ lab.

SCHEDULE STATUS: TYPE AND AMOUNT OF WORK DONE vs. SCHEDULED WORK

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
PROJECT: Albion-Sheridan Landfill
Albion, Michigan

DATE: 7/22/99
REPORT NO.: 56

WESTON WO NO.: 20064.003.100.8010

USEPA CONTRACT NO.: 68-W7-0026

WORK ASSIGNMENT NO.: 003-ROBF-05AN

ON-SITE RFW REPRESENTATIVE:

SITE MANAGER: Deepak L. Bhojwani

REMARKS: IDENTIFY SAFETY CONCERNS, SITE VISITORS,

SIGNATURE: Linda Korobka
NAME: Linda KOROBKA
DATE: 7/22/99

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston **DATE:** 7-23-99
PROJECT: Albion-Sheridan Landfill **REPORT NO.:** 57
Albion, Michigan
WESTON WO NO.: 20064.003.100.8010
USEPA CONTRACT NO.: 68-W7-0026
WORK ASSIGNMENT NO.: 003-ROBF-05AN
ON-SITE RFW REPRESENTATIVE: David C. Bhojwani
SITE MANAGER: Deepak L. Bhojwani

WEATHER: Fair Cloudy Clear () Inches/Rain
TEMPERATURE: Low 75 High 90°F

MEETINGS: MEEINGS HELD

Tim Hicks (W-C) started along west side of landfill covered in plastic (see 7-19-99) in trench/pull back material discussed when anchor trench was excavated.

Tim Hicks (W-C) for geomembrane ^{test} south of passive gas line #2 - 243 patches

Tim Hicks (W-C) stated all erosion problems under geomembrane have been fixed

REFERENCE SPEC, DWG, ACTIVITY #	WORK PLANNED TODAY, LOCATION OF WORK
Geonet Placement	place geonet along south side of landfill
Seep ^{liquid} water pumping	pump ^{liquid} water from seep to top of landfill
Geomembrane Placement	roll geomembrane out on landfill and perform fusion welding of seams - perform QA/QC associated with geomembrane

PREPARED BY: Roy F. Weston
PROJECT: Albion-Sheridan Landfill
 Albion, Michigan
DATE: 7-23-99
REPORT NO.: 57

WESTON WO NO.: 20064.003.100.8010
USEPA CONTRACT NO.: 68-W7-0026
WORK ASSIGNMENT NO.: 003-ROBF-05AN
ON-SITE RFW REPRESENTATIVE: David DeYoung
SITE MANAGER: Deepak L. Bhojwani

REFERENCE SPEC, DWG, ACTIVITY #	WORK PERFORMED TODAY LOCATION OF WORK
Gravel Placement	placed gravel along south side of landfill
	left space for rain flap
Seep liquid pumping	pumped liquid from seep (at both west corner of site) to top of landfill
Geomembrane Placement	rolled geomembrane in W-E direction south of passive gas line #2. fusion welded seams, performed test seams before working on base (65%)

SCHEDULE STATUS: TYPE AND AMOUNT OF WORK DONE vs. SCHEDULED WORK
Overall schedule is ahead - amount of geotextile is slowing progress

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
PROJECT: Albion-Sheridan Landfill
Albion, Michigan

DATE: 7-23-99
REPORT NO.: 57

WESTON WO NO.: 20064.003.100.8010

USEPA CONTRACT NO.: 68-W7-0026

WORK ASSIGNMENT NO.: 003-ROBF-05AN

ON-SITE RFW REPRESENTATIVE: David C. DeVorny
SITE MANAGER: Deepak L. Bhojwani

INSPECTIONS: INSPECTIONS PERFORMED, DEFICIENCIES OBSERVED, ACTION PROPOSED, ACTION TAKEN

- (1) Rain flaps installed on south side of landfill - via extension weld
- Flaps follow path marked by MEC
- (2) Geot sheets connected using plastic ties (between plastic ^{to} mesh of individual sheets) and fabric sewn together
- (3) Re sheet placed under seam to to fusion weld
- using 30 mil plastic from another job

QUALITY CONTROL TESTS BY CONTRACTOR:

Test sampling performed by GSE (fusion welding)

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
PROJECT: Albion-Sheridan Landfill
Albion, Michigan

DATE: 7-23-99
REPORT NO.: 57

WESTON WO NO.: 20064.003.100.8010

USEPA CONTRACT NO.: 68-W7-0026

WORK ASSIGNMENT NO.: 003-ROBF-05AN

ON-SITE RFW REPRESENTATIVE: *David C. ReYoung*
SITE MANAGER: Deepak L. Bhojwani

REMARKS: IDENTIFY SAFETY CONCERNS, SITE VISITORS,
<i>Conv Brothers dropping off 1-2" stone in southeast corner of site</i>

SIGNATURE: *David C. ReYoung*
NAME: *David C. ReYoung*
DATE: 7-23-99

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston **DATE:** 7/26/99
PROJECT: Albion-Sheridan Landfill **REPORT NO.:** 58
 Albion, Michigan
WESTON WO NO.: 20064.003.100.8010
USEPA CONTRACT NO.: 68-W7-0026
WORK ASSIGNMENT NO.: 003-ROBF-05AN
ON-SITE RFW REPRESENTATIVE:
SITE MANAGER: Deepak L. Bhojwani

WEATHER: Fair Cloudy Clear [] Inches/Rain off/on rain
TEMPERATURE: Low [] High [] °F 85°F

MEETINGS: MEEINGS HELD

L Korobla works with Heidi Fredricks and Tim Hicks
 of Woodward Clyde. Also Mike Geiset of OTHM and
 Mike Wittworth of GSE.

REFERENCE SPEC, DWG, ACTIVITY #	WORK PLANNED TODAY, LOCATION OF WORK
	Installation of 40 ml liner progresses along the flat portion of the cell
	Water from the seep hole is still being pumped out and placed on top of the cell.
	WC personnel are concerned over quality of welds on seams

DAILY OVERSIGHT REPORT

PREPARED BY:	Roy F. Weston	DATE:	7/26/99
PROJECT:	Albion-Sheridan Landfill Albion, Michigan	REPORT NO.:	58
WESTON WO NO.:	20064.003.100.8010		
USEPA CONTRACT NO.:	68-W7-0026		
WORK ASSIGNMENT NO.:	003-ROBF-05AN		
ON-SITE RFW REPRESENTATIVE:			
SITE MANAGER:	Deepak L. Bhojwani		

REFERENCE SPEC, DWG, ACTIVITY #	WORK PERFORMED TODAY LOCATION OF WORK
	GSE Vac tester is attempting to
	pass small sections of the seam
	welds leading to a large number of
	patches. WC wants GSE to
	extrusion weld the seams at the
	failure points instead of installing
	numerous patches.

SCHEDULE STATUS: TYPE AND AMOUNT OF WORK DONE vs. SCHEDULED WORK

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
PROJECT: Albion-Sheridan Landfill
Albion, Michigan

DATE: 7/26/99
REPORT NO.: 58

WESTON WO NO.: 20064.003.100.8010

USEPA CONTRACT NO.: 68-W7-0026

WORK ASSIGNMENT NO.: 003-ROBF-05AN

ON-SITE RFW REPRESENTATIVE:

SITE MANAGER: Deepak L. Bhojwani

REMARKS: IDENTIFY SAFETY CONCERNS, SITE VISITORS,

SIGNATURE: Linda Korobka

NAME: Linda Korobka

DATE: 7/26/99

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
PROJECT: Albion-Sheridan Landfill
 Albion, Michigan
WESTON WO NO.: 20064.003.100.8010
USEPA CONTRACT NO.: 68-W7-0026
WORK ASSIGNMENT NO.: 003-ROBF-05AN
ON-SITE RFW REPRESENTATIVE:
SITE MANAGER: Deepak L. Bhojwani

DATE: 7/27/99
REPORT NO.: 59

WEATHER: Fair Cloudy Clear [] Inches/Rain (no rain)
TEMPERATURE: Low [] High [] °F 70°F = AM 88°F = PM

MEETINGS: MEEINGS HELD

L Korobka arrives on site and signs in at the OTHM trailer. Mike Geiser is on site for IT-OTHM. Heidi Fredericks arrives on site at 939 hrs and Tim Hicks arrives on site at 1100 hrs.

REFERENCE SPEC, DWG, ACTIVITY #	WORK PLANNED TODAY, LOCATION OF WORK
Flexible Membrane Installation	No flexible membrane is installed today.
Drainage Net	GSE sews drainage net panels and installs additional drainage net all day. W-C personnel document panel lengths, lot # of panels, panel placement location and number.

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
PROJECT: Albion-Sheridan Landfill
 Albion, Michigan
WESTON WO NO.: 20064.003.100.8010
USEPA CONTRACT NO.: 68-W7-0026
WORK ASSIGNMENT NO.: 003-ROBF-05AN
ON-SITE RFW REPRESENTATIVE:
SITE MANAGER: Deepak L. Bhojwani

DATE: 7/27/99
REPORT NO.: 57

REFERENCE SPEC, DWG, ACTIVITY #	WORK PERFORMED TODAY LOCATION OF WORK
	OTM is rolling area north of panel #65
	(flexible membrane) and continues trench
	installation along the east edge of the cell.
	OTM continues to pump water from
	seep area and place it on top of the cell.
	Surveyors will be on site tomorrow to take
	readings around borrows and at south
	section of the cell to let OTM know if
	they can start fill operations on the south
	edge of the cell.

SCHEDULE STATUS: TYPE AND AMOUNT OF WORK DONE vs. SCHEDULED WORK

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
PROJECT: Albion-Sheridan Landfill
 Albion, Michigan
WESTON WO NO.: 20064.003.100.8010
USEPA CONTRACT NO.: 68-W7-0026
WORK ASSIGNMENT NO.: 003-ROBF-05AN
ON-SITE RFW REPRESENTATIVE:
SITE MANAGER: Deepak L. Bhojwani

DATE: 7/27/99
REPORT NO.: 59

INSPECTIONS: INSPECTIONS PERFORMED, DEFICIENCIES OBSERVED, ACTION PROPOSED, ACTION TAKEN	

QUALITY CONTROL TESTS BY CONTRACTOR:	

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
PROJECT: Albion-Sheridan Landfill
 Albion, Michigan
WESTON WO NO.: 20064.003.100.8010
USEPA CONTRACT NO.: 68-W7-0026
WORK ASSIGNMENT NO.: 003-ROBF-05AN
ON-SITE RFW REPRESENTATIVE:
SITE MANAGER: Deepak L. Bhojwani

DATE: 7/27/99
REPORT NO.: 59

REMARKS: IDENTIFY SAFETY CONCERNS, SITE VISITORS,

W-C (Tim Hicks) says that it appears that OHM
 can begin fill operations (topsoil) at the south edge of the
 cell on Monday (August 2, 1999).

SIGNATURE: Linda Korobka
NAME: Linda Korobka
DATE: 27 July 1999

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
 PROJECT: Albion-Sheridan Landfill
 Albion, Michigan

DATE: 7-28-99
 REPORT NO.: 60

WESTON WO NO.: 20064.003.100.8010
 USEPA CONTRACT NO.: 68-W7-0026
 WORK ASSIGNMENT NO.: 003-ROBF-05AN
 ON-SITE RFW REPRESENTATIVE:
 SITE MANAGER: Paul C. Wong
 Deepak L. Bhojwani

WEATHER: Fair Cloudy Clear [] Inches/Rain
 TEMPERATURE: Low 80 High 90°F

MEETINGS: MEEINGS HELD
Tim Hicks (W-C) - told him about
not in F65-F67 geomembrane area - may be down line
of leachate or process - not action taken

REFERENCE SPEC, DWG, ACTIVITY #	WORK PLANNED TODAY, LOCATION OF WORK
Leachate landfill area	roll areas north of geomembrane placement area on landfill
Grading landfill area	grade out process area from landfill
Geomembrane Placement	install geomembrane south of process gas line #4 - pattern necessary QA/QC
Stormwater pumping	level storage area water removal - pump to top of landfill

DAILY OVERSIGHT REPORT

PREPARED BY:	Roy F. Weston	DATE:	7-29-99
PROJECT:	Albion-Sheridan Landfill Albion, Michigan	REPORT NO.:	60
WESTON WO NO.:	20064.003.100.8010		
USEPA CONTRACT NO.:	68-W7-0026		
WORK ASSIGNMENT NO.:	003-ROBF-05AN		
ON-SITE RFW REPRESENTATIVE:	Pand C. Yeung		
SITE MANAGER:	Deepak L. Bhojwani		

REFERENCE SPEC, DWG, ACTIVITY #	WORK PERFORMED TODAY LOCATION OF WORK
<i>Rolling / Grading landfill area</i>	<i>rolled area north of current geomembrane area - graded east storm water collection trench (new soil hauled from east barrier pit)</i>
<i>Geomembrane Placement</i>	<i>installed geomembrane south of permeable line # 1, performed air testing and test seal</i>
<i>Stormwater pumping</i>	<i>large storage area stormwater pumped to top of landfill for infiltration into cover layer / trash</i>

SCHEDULE STATUS: TYPE AND AMOUNT OF WORK DONE vs. SCHEDULED WORK
<i>Overall schedule is ahead - Additional rain will seriously hinder progress of project</i>

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
PROJECT: Albion-Sheridan Landfill
Albion, Michigan

DATE: 7-28-99
REPORT NO.: 60

WESTON WO NO.: 20064.003.100.8010

USEPA CONTRACT NO.: 68-W7-0026

WORK ASSIGNMENT NO.: 003-ROBF-05AN

ON-SITE RFW REPRESENTATIVE: David C. Young
SITE MANAGER: Deepak L. Bhojwani

INSPECTIONS: INSPECTIONS PERFORMED, DEFICIENCIES OBSERVED, ACTION PROPOSED, ACTION TAKEN

- (1) Considerable erosion along anchor trench - south side of landfill
- (2) Geomembrane laid down complete south of panel Z1 (SOUTH side of passive gas line #2)
- (3) Having trouble with fusion welder - burning holes in geomembrane
- (4) CSE continues to drive 4x6 vehicle over geomembrane ~~with~~ ^{DP}
- (5) Stepped in cut 72" in P-65 - P-67 panel area (under geomembrane)
Add Tim Hicks (W.C.) - NO action taken
- (6) No visible trash/pollutants in anchor trenches excavated on east and west side of landfill.

QUALITY CONTROL TESTS BY CONTRACTOR:

Test runs and air testing performed by CSE

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
PROJECT: Albion-Sheridan Landfill
Albion, Michigan

DATE: 7-28-99
REPORT NO.: 60

WESTON WO NO.: 20064.003.100.8010
USEPA CONTRACT NO.: 68-W7-0026
WORK ASSIGNMENT NO.: 003-ROBF-05AN
ON-SITE RFW REPRESENTATIVE: David C. DeYoung
SITE MANAGER: Deepak L. Bhojwani

REMARKS: IDENTIFY SAFETY CONCERNS, SITE VISITORS,	
MEC on-site sampling	

SIGNATURE: David C. DeYoung
NAME: David C. DeYoung
DATE: 7-28-99

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
PROJECT: Albion-Sheridan Landfill
 Albion, Michigan
WESTON WO NO.: 20064.003.100.8010
USEPA CONTRACT NO.: 68-W7-0026
WORK ASSIGNMENT NO.: 003-ROBF-05AN
ON-SITE RFW REPRESENTATIVE:
SITE MANAGER: Deepak L. Bhojwani
DATE: 7/29/99
REPORT NO.: 61

REFERENCE SPEC, DWG, ACTIVITY #	WORK PERFORMED TODAY LOCATION OF WORK
	South west edge of the cell. OTHM is also backfilling trenches along the southern edge of the cell in preparation of next weeks installation of subdrain/ toe drain and to limit erosion from thunderstorms expected to blow through today and tonight.

SCHEDULE STATUS: TYPE AND AMOUNT OF WORK DONE vs. SCHEDULED WORK
OTHM and WC discuss schedule status and amendments. WC will send D. Bhojwani and J. Petersen amended schedule in a few days.

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston **DATE:** 7/29/99
PROJECT: Albion-Sheridan Landfill **REPORT NO.:** 61
 Albion, Michigan
WESTON WO NO.: 20064.003.100.8010
USEPA CONTRACT NO.: 68-W7-0026
WORK ASSIGNMENT NO.: 003-ROBF-05AN
ON-SITE RFW REPRESENTATIVE:
SITE MANAGER: Deepak L. Bhojwani

REMARKS: IDENTIFY SAFETY CONCERNS, SITE VISITORS,

SIGNATURE: Linda Koobka
NAME: Linda Koobka
DATE: 7/29/99

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
PROJECT: Albion-Sheridan Landfill
 Albion, Michigan
DATE: 7/20/99
REPORT NO.: 62
WESTON WO NO.: 20064.003.100.8010
USEPA CONTRACT NO.: 68-W7-0026
WORK ASSIGNMENT NO.: 003-ROBF-05AN
ON-SITE RFW REPRESENTATIVE:
SITE MANAGER: Deepak L. Bhojwani

WEATHER: Fair Cloudy Clear [—] Inches/Rain
TEMPERATURE: Low [] High [] °F Am = 83°F PM = 95°F - Humid

MEETINGS: MEEINGS HELD

LKorolka on site with Mike Geiser (OTM) and Tim Hicks (WC)

REFERENCE SPEC, DWG. ACTIVITY #	WORK PLANNED TODAY, LOCATION OF WORK
Flexible Membrane Installation	GSE is patching membrane areas that failed the vacuum test WC is documenting patch number and location. OTM is grading along the east edge of the cell OTM leaves the site @ 1200 hrs for the day. WC is amending work schedule. The

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
PROJECT: Albion-Sheridan Landfill
 Albion, Michigan
WESTON WO NO.: 20064.003.100.8010
USEPA CONTRACT NO.: 68-W7-0026
WORK ASSIGNMENT NO.: 003-ROBF-05AN
ON-SITE RFW REPRESENTATIVE:
SITE MANAGER: Deepak L. Bhojwani

DATE: 7/30/99
REPORT NO.: 62

INSPECTIONS: INSPECTIONS PERFORMED, DEFICIENCIES OBSERVED, ACTION PROPOSED, ACTION TAKEN	

QUALITY CONTROL TESTS BY CONTRACTOR:	

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
PROJECT: Albion-Sheridan Landfill
 Albion, Michigan
WESTON WO NO.: 20064.003.100.8010
USEPA CONTRACT NO.: 68-W7-0026
WORK ASSIGNMENT NO.: 003-ROBF-05AN
ON-SITE RFW REPRESENTATIVE:
SITE MANAGER: Deepak L. Bhojwani

DATE: 7/30/99
REPORT NO.: 62

REMARKS: IDENTIFY SAFETY CONCERNS, SITE VISITORS,	

SIGNATURE: Linda Koebel
NAME: Linda Koebel
DATE: 30 July 1999

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston **DATE:** 8/2/99
PROJECT: Albion-Sheridan Landfill **REPORT NO.:** 623
Albion, Michigan
WESTON WO NO.: 20064.003.100.8010
USEPA CONTRACT NO.: 68-W7-0026
WORK ASSIGNMENT NO.: 003-ROBF-05AN
ON-SITE RFW REPRESENTATIVE:
SITE MANAGER: Deepak L. Bhojwani

WEATHER: Fair Cloudy Clear [] Inches/Rain 65°F = Am 75°F = PM
TEMPERATURE: Low [] High [] °F

MEETINGS: MEEINGS HELD

L. Korolka on site with Tom Hicks, Heidi Fredericks,
Mike Heiser, Brian O'Boyle and Jeff Lodi

REFERENCE SPEC, DWG. ACTIVITY #	WORK PLANNED TODAY, LOCATION OF WORK
Flexible Membrane	A. Fredericks is documenting location and number of patches on panels 65-71.
Drainage Net	GSE is laying down plastic liner for subdrain / toe drain system and working with geonet.
Installation of Subdrain / Toe Drain	OTM is grading erosion damage to sand on top of liner at the

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
PROJECT: Albion-Sheridan Landfill
 Albion, Michigan
WESTON WO NO.: 20064.003.100.8010
USEPA CONTRACT NO.: 68-W7-0026
WORK ASSIGNMENT NO.: 003-ROBF-05AN
ON-SITE RFW REPRESENTATIVE:
SITE MANAGER: Deepak L. Bhojwani

DATE: 8/2/99
REPORT NO.: 63

REFERENCE SPEC, DWG, ACTIVITY #	WORK PERFORMED TODAY LOCATION OF WORK
	South edge of the cell. 3" of
	rain fell in a rain event at the
	site on Saturday (7/31/99).
	OHM prepares south edge of cell
	for installation of subdrain / tile
	drain system.

SCHEDULE STATUS: TYPE AND AMOUNT OF WORK DONE vs. SCHEDULED WORK

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
 PROJECT: Albion-Sheridan Landfill
 Albion, Michigan

DATE: 8/2/99
 REPORT NO.: 62

WESTON WO NO.: 20064.003.100.8010

USEPA CONTRACT NO.: 68-W7-0026

WORK ASSIGNMENT NO.: 003-ROBF-05AN

ON-SITE RFW REPRESENTATIVE:

SITE MANAGER: Deepak L. Bhojwani

REMARKS: IDENTIFY SAFETY CONCERNS, SITE VISITORS,

SIGNATURE: Linda Korabka
 NAME: Linda Korabka
 DATE: 2 August 1999

10. Deepak Bhojwani
 From: Linda Kroll

Fax: 847-918-4055

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
 PROJECT: Albion-Sheridan Landfill
 Albion, Michigan

DATE: 8/31/99
 REPORT NO.: 6467

WESTON WO NO.: 20064.003.100.8010
 USEPA CONTRACT NO.: 68-W7-0026
 WORK ASSIGNMENT NO.: 003-ROBF-05AN
 ON-SITE RFW REPRESENTATIVE:
 SITE MANAGER: Deepak L. Bhojwani

WEATHER: Fair Cloudy Clear [] Inches/Rain
 TEMPERATURE: Low [] High [] °F Am = 68°F Partly Cloudy

MEETINGS: MEEINGS HELD

L. Kroll on site with H. Fredericks (W.C.), Jeff Bodi (O&M),
 John Nenni (O&M), Mike Geiser (O&M) and Brian O'Boyle (O&M).
 L. Kroll discusses progress of site activities and
 work plans for the day.

REFERENCE SPEC, DWG. ACTIVITY #	WORK PLANNED TODAY, LOCATION OF WORK
Flexible Membrane Installation	GSE is laying down flexible membrane panels and welding with vacuum testing. Working on panel #s 83-90 on top of cell. WC is
Geo Net Installation	documenting ^{LC} WC is documenting geo net placement, panel lengths, number and location.
Sub drain / toe drain Installation	O&M continues installation of subdrain / toe drain along south and east sides of cell.

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
 PROJECT: Albion-Sheridan Landfill
 Albion, Michigan

DATE: 8/3/99
 REPORT NO.: 0467
 Linda Lamb

WESTON WO NO.: 20064.003.100.8010
 USEPA CONTRACT NO.: 68-W7-0026
 WORK ASSIGNMENT NO.: 003-ROBF-05AN
 ON-SITE RFW REPRESENTATIVE:
 SITE MANAGER: Deepak L. Bhojwani

INSPECTIONS: INSPECTIONS PERFORMED, DEFICIENCIES OBSERVED, ACTION PROPOSED, ACTION TAKEN
1. Sew liquid continuing to be pumped to top of landfill for infiltration.
2. Silt fence near seep area (west side off landfill) is over run by sediment.
3. Layer of sand (poor housekeeping) on panel #80 and #81 next to weld on panels 82 and 83.

QUALITY CONTROL TESTS BY CONTRACTOR:
NA

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
PROJECT: Albion-Sheridan Landfill
Albion, Michigan

DATE: 8/3/99
REPORT NO.: 6467
Linda Kowble

WESTON WO NO.: 20064.003.100.8010

USEPA CONTRACT NO.: 68-W7-0026

WORK ASSIGNMENT NO.: 003-ROBF-05AN

ON-SITE RFW REPRESENTATIVE:

SITE MANAGER: Deepak L. Bhojwani

REMARKS: IDENTIFY SAFETY CONCERNS, SITE VISITORS,

SIGNATURE: *Linda Kowble*
NAME: Linda Kowble
DATE: 8/3/99

To: ~~David Re Young~~
 From: David Re Young

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
 PROJECT: Albion-Sheridan Landfill
 Albion, Michigan

DATE: 8-4-99
 REPORT NO.: 65

WESTON WO NO.: 20064.003.100.8010
 USEPA CONTRACT NO.: 68-W7-0026
 WORK ASSIGNMENT NO.: 003-ROBF-05AN
 ON-SITE RFW REPRESENTATIVE: David C. Re Young
 SITE MANAGER: Deepak L. Bhojwani

WEATHER: Fair Cloudy Clear [<0.1] Inches/Rain
 TEMPERATURE: Low [75] High [80] °F 5 minutes of rain around lunchtime

MEETINGS: MEEINGS HELD
Herdi (W-C) discussed issues in Inspections portion of report
Herdi was going to talk with Tim Hicks

REFERENCE SPEC, DWG, ACTIVITY #	WORK PLANNED TODAY, LOCATION OF WORK
Cover Layer	place cover layer over geocast on south side of landfill
Landfill subdrain placement	south side of landfill
Geomembrane Repair	north of passive gas line #4
Geocast Placement	north of passive gas line #2

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
PROJECT: Albion-Sheridan Landfill
 Albion, Michigan
WESTON WO NO.: 20064.003.100.8010
USEPA CONTRACT NO.: 68-W7-0026
WORK ASSIGNMENT NO.: 003-ROBF-05AN
ON-SITE RFW REPRESENTATIVE: David C. DeYoung
SITE MANAGER: Deepak L. Bhojwani

DATE: 8-4-99

REPORT NO.: 6509

REFERENCE SPEC, DWG, ACTIVITY #	WORK PERFORMED TODAY LOCATION OF WORK
Cover Soil Layer	placed cover layer over gravel south of passive gas line # 2
Landfill subdrain placement	placed 6" black corr. pipe and stone on front- side of rain flap - placed ^{PP} sort on back
Membrane Repair	performed extrusion welding on repair areas north of passive gas line # 4

SCHEDULE STATUS: TYPE AND AMOUNT OF WORK DONE vs. SCHEDULED WORK

Overall schedule is ahead

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
 PROJECT: Albion-Sheridan Landfill
 Albion, Michigan

DATE: 8-4-99
 REPORT NO.: 656

WESTON WO NO.: 20064.003.100.8010
 USEPA CONTRACT NO.: 68-W7-0026
 WORK ASSIGNMENT NO.: 003-ROBF-05AN
 ON-SITE RFW REPRESENTATIVE: David C. DeYoung
 SITE MANAGER: Deepak L. Bhojwani

INSPECTIONS: INSPECTIONS PERFORMED, DEFICIENCIES OBSERVED, ACTION PROPOSED, ACTION TAKEN

- | |
|--|
| (1) Excessive sand & gravel located on geomembrane near seams between panels P-81-P82, P89-P-90 |
| (2) GSE contractor to drive 6xb vehicle over geomembrane |
| (3) Southeast corners of P-65 and P-66 panels show a very uneven surface with mounds of soil 2"-6" above grade |
| (4) Seep in northwest corner of landfill still flowing |
| |
| |

QUALITY CONTROL TESTS BY CONTRACTOR:

NA

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
PROJECT: Albion-Sheridan Landfill
 Albion, Michigan
WESTON WO NO.: 20064.003.100.8010
USEPA CONTRACT NO.: 68-W7-0026
WORK ASSIGNMENT NO.: 003-ROBF-05AN
ON-SITE RFW REPRESENTATIVE: David C R Young
SITE MANAGER: Deepak L. Bhojwani

DATE: 8-4-99
REPORT NO.: 6509

REMARKS: IDENTIFY SAFETY CONCERNS, SITE VISITORS,
John Seymour (W-C) on-site

SIGNATURE: David C R Young
NAME: David C R Young
DATE: 8-4-99

10:00
From: *David R Young* **DAILY OVERSIGHT REPORT**

tax: 0717-710-723

PREPARED BY: Roy F. Weston
PROJECT: Albion-Sheridan Landfill
Albion, Michigan

DATE: 8-5-99
REPORT NO.: 66

WESTON WO NO.: 20064.003.100.8010
USEPA CONTRACT NO.: 68-W7-0026
WORK ASSIGNMENT NO.: 003-ROBF-05AN
ON-SITE RFW REPRESENTATIVE: *David C R Young*
SITE MANAGER: Deepak L. Bhojwani

WEATHER: Fair Cloudy Clear [] Inches/Rain
TEMPERATURE: Low *77* High *80*°F

MEETINGS: MEEINGS HELD
<i>Held: Fredricks only w-c representative on site today</i>

REFERENCE SPEC, DWG, ACTIVITY #	WORK PLANNED TODAY, LOCATION OF WORK
<i>Cover Cap Placement</i>	<i>south side of site - over geonet</i>
<i>Geonet placement</i>	<i>south of passive gas line #4</i>
<i>Geonet/liner Repair</i>	<i>areas north of passive gas line #3</i>

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
PROJECT: Albion-Sheridan Landfill
 Albion, Michigan

DATE: 8-5-99
REPORT NO.: 66 ~~68~~

WESTON WO NO.: 20064.003.100.8010
USEPA CONTRACT NO.: 68-W7-0026
WORK ASSIGNMENT NO.: 003-ROBF-05AN
ON-SITE RFW REPRESENTATIVE: David C. DeYoung
SITE MANAGER: Deepak L. Bhojwani

REFERENCE SPEC, DWG, ACTIVITY #	WORK PERFORMED TODAY LOCATION OF WORK
Carb Layer Placement	placed 710" of sand on top of geomat in southeast corner of site
Geomat Placement	placed geomat to area just north of passive gas line #4. Tied and sowed all geomat seams
Geomembrane Repair	performed repairs utilizing extrusion welding

SCHEDULE STATUS: TYPE AND AMOUNT OF WORK DONE vs. SCHEDULED WORK

Overall schedule is ahead

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
 PROJECT: Albion-Sheridan Landfill
 Albion, Michigan

DATE: 8-5-99
 REPORT NO.: 660

WESTON WO NO.: 20064.003.100.8010
 USEPA CONTRACT NO.: 68-W7-0026
 WORK ASSIGNMENT NO.: 003-ROBF-05AN
 ON-SITE RFW REPRESENTATIVE: David C. Ryong
 SITE MANAGER: Deepak L. Bhojwani

INSPECTIONS: INSPECTIONS PERFORMED, DEFICIENCIES OBSERVED, ACTION PROPOSED, ACTION TAKEN	
(1)	Perimeter fence in places along north and west sides of site is 12" off ground after soil construction - easy for humans and animals to get under fence
(2)	Soil used for cover layer over gravel is much coarser than other material taken from west borrow pit

QUALITY CONTROL TESTS BY CONTRACTOR:	
	destructive testing using field tensiometer - P-21 samples
	all passed applicable standard (48) - viewed by Weston

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
 PROJECT: Albion-Sheridan Landfill
 Albion, Michigan

DATE: 8-5-99
 REPORT NO.: 66

WESTON WO NO.: 20064.003.100.8010

USEPA CONTRACT NO.: 68-W7-0026

WORK ASSIGNMENT NO.: 003-ROBF-05AN

ON-SITE RFW REPRESENTATIVE: David C. DeYoung

SITE MANAGER: Deepak L. Bhojwani

REMARKS: IDENTIFY SAFETY CONCERNS, SITE VISITORS,
MEC on-site surveying area north of current liner and
current liner area

SIGNATURE: David C. DeYoung
 NAME: David C. DeYoung
 DATE: 8-5-99

To: Deepak
From: David DeYoung

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
PROJECT: Albion-Sheridan Landfill
Albion, Michigan

DATE: 8-6-99
REPORT NO.: 67

WESTON WO NO.: 20064.003.100.8010
USEPA CONTRACT NO.: 68-W7-0026
WORK ASSIGNMENT NO.: 003-ROBF-05AN
ON-SITE RFW REPRESENTATIVE: David C. DeYoung
SITE MANAGER: Deepak L. Bhojwani

WEATHER: Fair Cloudy Clear [] Inches/Rain
TEMPERATURE: Low 65 High 80°F

MEETINGS: MEEINGS HELD
Went over site issues as discussed in <u>Inspections</u> with Heidi Fredrick's and Tim Hicks

REFERENCE SPEC, DWG, ACTIVITY #	WORK PLANNED TODAY, LOCATION OF WORK
Placement of cover soil layer	place 18" of soil over granite south side of site
Geomembrane Placement	continue laying geomembrane in W-E direction towards north end of site

DAILY OVERSIGHT REPORT

PREPARED BY:	Roy F. Weston	DATE: 8-6-99
PROJECT:	Albion-Sheridan Landfill Albion, Michigan	REPORT NO.: 67 68
WESTON WO NO.:	20064.003.100.8010	
USEPA CONTRACT NO.:	68-W7-0026	
WORK ASSIGNMENT NO.:	003-ROBF-05AN	
ON-SITE RFW REPRESENTATIVE:	David C. DeYoung	
SITE MANAGER:	Deepak L. Bhojwani	

REFERENCE SPEC, DWG, ACTIVITY #	WORK PERFORMED TODAY LOCATION OF WORK
Placement of cover soil layer	placed 18"-24" of soil over geonet in southeast corner of landfill ^{(north of north) 100} and along south end of landfill
Geomembrane Placement	placed geomembrane south of passive gas line #6 in W-E direction

SCHEDULE STATUS: TYPE AND AMOUNT OF WORK DONE vs. SCHEDULED WORK
Overall schedule is ahead, geomembrane placement is going slower than anticipated

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
 PROJECT: Albion-Sheridan Landfill
 Albion, Michigan

DATE: 8-6-99
 REPORT NO.: 67

WESTON WO NO.: 20064.003.100.8010
 USEPA CONTRACT NO.: 68-W7-0026
 WORK ASSIGNMENT NO.: 003-ROBF-05AN
 ON-SITE RFW REPRESENTATIVE: David C. Young
 SITE MANAGER: Deepak L. Bhojwani

INSPECTIONS: INSPECTIONS PERFORMED, DEFICIENCIES OBSERVED, ACTION PROPOSED, ACTION TAKEN

- (1) Many areas of geomembrane placement with sand and gravel littering geomembrane surface
- (2) Eastern anchor trench has trash/rubbish exposed on vertical walls - ^{top}
- (3) Western anchor trench has trash/rubbish exposed on vertical walls
- (4) Methane pocket forming under geomembrane - near pressure gas line #4
- (5) O&M/IT employee walking out areas near geomembrane smoking cigarettes

QUALITY CONTROL TESTS BY CONTRACTOR:

Air testing and destructive testing (field tensiometer) performed

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
 PROJECT: Albion-Sheridan Landfill
 Albion, Michigan

DATE: 8-6-99
 REPORT NO.: 670

WESTON WO NO.: 20064.003.100.8010
 USEPA CONTRACT NO.: 68-W7-0026
 WORK ASSIGNMENT NO.: 003-ROBF-05AN
 ON-SITE RFW REPRESENTATIVE: David C DeYoung
 SITE MANAGER: Deepak L. Bhojwani

REMARKS: IDENTIFY SAFETY CONCERNS, SITE VISITORS,
Smoking near passive gas line vent pipes by O'Hall / IT
employee may be dangerous - explosive hazard (see trace)

SIGNATURE: David C DeYoung
 NAME: David C DeYoung
 DATE: 8-6-99

To: Deepak Bhojwani

From: Linda Kroll

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
 PROJECT: Albion-Sheridan Landfill
 Albion, Michigan

DATE: 8/1/99
 REPORT NO.: #68

To: Deepak Bhojwani
 From: Linda Kroll

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
 PROJECT: Albion-Sheridan Landfill
 Albion, Michigan

Fax: 847-918-4055
 DATE: 8/4/99
 REPORT NO.: 68

WESTON WO NO.: 20064.003.100.8010
 USEPA CONTRACT NO.: 68-W7-0026
 WORK ASSIGNMENT NO.: 003-ROBF-05AN
 ON-SITE RFW REPRESENTATIVE:
 SITE MANAGER: Deepak L. Bhojwani

WEATHER: Fair Cloudy Clear [] Inches/Rain
 TEMPERATURE: Low [] High [] °F AM = 68°F Partly Cloudy

MEETINGS: MEEINGS HELD
L Kroll on site with H. Fredericks (W.C.), Jeff Bodi (O&M), John Henri (O&M), Mike Geiser (O&M) and Brian O'Boyle (O&M). L Kroll discusses progress of site activities and work plans for the day.

REFERENCE SPEC, DWG. ACTIVITY #	WORK PLANNED TODAY, LOCATION OF WORK
Flexible Membrane Installation	GSE is laying down flexible membrane panels and welding with vacuum testing. Working on panel #s 83-90 on top of cell. WC is
Geo Net Installation	documenting ^{LC} WC is documenting geo net placement, panel lengths, number and location.
Sub drain / toe drain installation	O&M continues installation of subdrain / toe drain along south and east sides of cell.

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
PROJECT: Albion-Sheridan Landfill
 Albion, Michigan
WESTON WO NO.: 20064.003.100.8010
USEPA CONTRACT NO.: 68-W7-0026
WORK ASSIGNMENT NO.: 003-ROBF-05AN
ON-SITE RFW REPRESENTATIVE:
SITE MANAGER: Deepak L. Bhojwani

DATE: 8/1/99
REPORT NO.: # *68*
Linda Karabk

REFERENCE SPEC, DWG, ACTIVITY #	WORK PERFORMED TODAY LOCATION OF WORK
<i>Geo net installation</i>	<i>GSE workers are laying geonet and sewing out seams today.</i>

SCHEDULE STATUS: TYPE AND AMOUNT OF WORK DONE vs. SCHEDULED WORK
<i>Rain prec event on Saturday (8/7/99) has left numerous</i>
<i>puddles on the service roads around the base of the cell.</i>

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
PROJECT: Albion-Sheridan Landfill
 Albion, Michigan
WESTON WO NO.: 20064.003.100.8010
USEPA CONTRACT NO.: 68-W7-0026
WORK ASSIGNMENT NO.: 003-ROBF-05AN
ON-SITE RFW REPRESENTATIVE:
SITE MANAGER: Deepak L. Bhojwani

DATE: 8/9/99
REPORT NO.: #058
 Linda Korabek

**INSPECTIONS: INSPECTIONS PERFORMED, DEFICIENCIES OBSERVED,
 ACTION PROPOSED, ACTION TAKEN**

1. MDEQ + RFW note water in seep area flowing from cell today to pool in collection basin on the cell, (DEQ + RFW) take photos.
2. Greenish liquid noted in two distinct areas on service road directly west of seep collection area and off the cell (DEQ + RFW) take photos. Slightly septic odor present in seep area.
3. MDEQ + RFW note ~ 14 separate erosion areas from anchor trenches on east side of the cell and take photos.
4. MDEQ + RFW note area on west side of the cell where GSE started a fire while welding flexible membrane near anchor trench.

QUALITY CONTROL TESTS BY CONTRACTOR:

NA

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
PROJECT: Albion-Sheridan Landfill
Albion, Michigan

DATE: 8/9/99
REPORT NO.: #6867
Linda Korobka

WESTON WO NO.: 20064.003.100.8010
USEPA CONTRACT NO.: 68-W7-0026
WORK ASSIGNMENT NO.: 003-ROBF-05AN
ON-SITE RFW REPRESENTATIVE:
SITE MANAGER: Deepak L. Bhojwani

REMARKS: IDENTIFY SAFETY CONCERNS, SITE VISITORS,

Mary Schaefer - MDEQ	} on site from 1150 hrs to
Marge Fritsch - MDEQ	

SIGNATURE: *Linda Korobka*
NAME: Linda Korobka
DATE: 9 August 1999

10: Deepak Bhojwani

From: Linda Korabik

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
PROJECT: Albion-Sheridan Landfill
 Albion, Michigan

DATE: 8/9/99
REPORT NO.: #6810

WESTON WO NO.: 20064.003.100.8010
USEPA CONTRACT NO.: 68-W7-0026
WORK ASSIGNMENT NO.: 003-ROBF-05AN
ON-SITE RFW REPRESENTATIVE:
SITE MANAGER: Deepak L. Bhojwani

Linda Korabik

WEATHER: Fair Cloudy Clear [] Inches/Rain
TEMPERATURE: Low [] High [] °F 70°F

MEETINGS: MEEINGS HELD

L Korabik meets Tim Hicks (W.C) and Jeff Bodi (OHM) on site and discusses job progress.

Mary Schuler (MDEQ) and Marge Fritsch (MDEQ) arrive on site at 1:50 hours and tour site and take photos with L Korabik.

REFERENCE SPEC, DWG, ACTIVITY #	WORK PLANNED TODAY, LOCATION OF WORK
Subsurface Drain Installation	OHM workers are installing the drain along the east side of the cell. OHM is also moving sand to 18" depth on top of landfill covers along the south side of the cell. OHM is filling trucks with sand from west borrow pit for today's operations.
Flexible Membrane Installation	GSE has installed flexible membrane on cell to panel # 105 (east edge).

fax. 847-918-4055

To: Deepak
From: David DeYoung

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
PROJECT: Albion-Sheridan Landfill
Albion, Michigan

DATE: 8-10-99
REPORT NO.: 698

WESTON WO NO.: 20064.003.100.8010
USEPA CONTRACT NO.: 68-W7-0026
WORK ASSIGNMENT NO.: 003-ROBF-05AN
ON-SITE RFW REPRESENTATIVE: David C DeYoung
SITE MANAGER: Deepak L. Bhojwani

WEATHER: Fair Cloudy Clear [] Inches/Rain
TEMPERATURE: Low 64 High 70°F rained significantly last night - no water left in rain gauge

MEETINGS: MEEINGS HELD Mike (GSE) Surveyor did not mark rain flap location along west side of landfill - delaying geonit placement
Tim Hicks (W-C) - stated a methane fire occurred on east side of site from ignition of air testing torch - geomembrane repaired after fire was put out by fire ext. went over trash/walsh problem on east side of site - will dig test pits to determine origin of trash/walsh. Tim (W-C) stated that analytical ^{by samples} collected by W-C of seep showed no hazardous levels. Jeremy (GSE) stated the surveyors marked rain flap on top of landfill incorrectly. they have to redo rain flap

REFERENCE SPEC, DWG, ACTIVITY #	WORK PLANNED TODAY, LOCATION OF WORK
Subsurface Drain Installation (Rain Flap Placement)	Install rain flap on east side of landfill near passive gas line #5 and #6
Drum Disposal	Dispose of 2 drums from previous work activities

DAILY OVERSIGHT REPORT

PREPARED BY:	Roy F. Weston	DATE: 8-10-99
PROJECT:	Albion-Sheridan Landfill Albion, Michigan	REPORT NO.: 690
WESTON WO NO.:	20064.003.100.8010	
USEPA CONTRACT NO.:	68-W7-0026	
WORK ASSIGNMENT NO.:	003-ROBF-05AN	
ON-SITE RFW REPRESENTATIVE:	David C. DeYoung	
SITE MANAGER:	Deepak L. Bhojwani	

REFERENCE SPEC, DWG, ACTIVITY #	WORK PERFORMED TODAY LOCATION OF WORK
Subsurface Drain Installation	Installed rain flap (70") with extension welding along east side of landfill - near passive gas line #5 + #6
Drum Disposal	Disposed of 2 drums from previous work activities - transported by L.W.P. of Kentucky disposal record ^{shows drums} going to Kentucky 057

SCHEDULE STATUS: TYPE AND AMOUNT OF WORK DONE vs. SCHEDULED WORK
Threat of rain ^{TP} and moist ground prevented O&M-IT from completing full work activities. Threat of rain prevented GSE from starting work until after lunch (Tim Hick was

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
 PROJECT: Albion-Sheridan Landfill
 Albion, Michigan

DATE: 8-10-99
 REPORT NO.: 698

WESTON WO NO.: 20064.003.100.8010

USEPA CONTRACT NO.: 68-W7-0026

WORK ASSIGNMENT NO.: 003-ROBF-05AN

ON-SITE RFW REPRESENTATIVE: David C. Young

SITE MANAGER: Deepak L. Bhojwani

INSPECTIONS: INSPECTIONS PERFORMED, DEFICIENCIES OBSERVED, ACTION PROPOSED, ACTION TAKEN

- (1) Land surface at site very wet with significant puddling
- (2) K&D dumpster (empty) located next to barrel storage area
- (3) Seep liquid continuing to be pumped to top of landfill for infiltration
- (4) Greenish colored ^{liquid} ~~water~~ ponded in roadway behind soil berm containing seep
- (5) Silt fence near seep area (west side - off landfill) is overrun by sediment
- (6) ^{erosion} Erosional ruts along east ^{edge} ~~side~~ of landfill (off liner) - trash / rubbish exposed within ruts
- (7) Area under panel P-98 (geomembrane) and 2-3 panels north and south along east side of landfill have irregular surface - relief 72" - Tim Hicks was present during inspection - probably erosion

QUALITY CONTROL TESTS BY CONTRACTOR:

NA

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
PROJECT: Albion-Sheridan Landfill
Albion, Michigan

DATE: 8-10-99
REPORT NO.: 698

WESTON WO NO.: 20064.003.100.8010

USEPA CONTRACT NO.: 68-W7-0026

WORK ASSIGNMENT NO.: 003-ROBF-05AN

ON-SITE RFW REPRESENTATIVE: David C. DeYoung

SITE MANAGER: Deepak L. Bhojwani

REMARKS: IDENTIFY SAFETY CONCERNS, SITE VISITORS,

L.W.D. Inc. on-site to pick up 2 drums (hazardous) from previous work activities

SIGNATURE: David C. DeYoung

NAME: David C. DeYoung

DATE: 8-10-99

To: *Veena K.*
 From: *David C. Young*

Fax: 847-918-4055

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
 PROJECT: Albion-Sheridan Landfill
 Albion, Michigan

DATE: 8-11-99
 REPORT NO.: 706

WESTON WO NO.: 20064.003.100.8010
 USEPA CONTRACT NO.: 68-W7-0026
 WORK ASSIGNMENT NO.: 003-ROBF-05AN
 ON-SITE RFW REPRESENTATIVE: *David C. Young*
 SITE MANAGER: Deepak L. Bhojwani

WEATHER: Fair Cloudy Clear [] Inches/Rain
 TEMPERATURE: Low *75* High *82*°F

MEETINGS: MEEINGS HELD *Tim Hicks (w-c) stated seep was to be covered per John Peterson and Mary S. (MDEQ) If another seep develops off liner or anchor trench collect^{or} seep liquid, the liquid will be collected and disposed of properly*
Tim Hicks (w-c) anchor trench moved further west to cover ^{an} additional trash area along west side of landfill (pressure gas line #6 area)

REFERENCE SPEC, DWG, ACTIVITY #	WORK PLANNED TODAY, LOCATION OF WORK
<i>Placement of Soil Cover^{age}</i>	<i>Place ^{DD} 2" ^{DD} cover ^{DD} south of pressure gas line #3</i>
<i>Geomembrane Placement</i>	<i>Place geomembrane in pressure gas line #6 area</i>

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
PROJECT: Albion-Sheridan Landfill
 Albion, Michigan

DATE: 8-11-99
REPORT NO.: 70 (6)

WESTON WO NO.: 20064.003.100.8010
USEPA CONTRACT NO.: 68-W7-0026
WORK ASSIGNMENT NO.: 003-ROBF-05AN
ON-SITE RFW REPRESENTATIVE: David E. Young
SITE MANAGER: Deepak L. Bhojwani

REFERENCE SPEC, DWG, ACTIVITY #	WORK PERFORMED TODAY LOCATION OF WORK
Placement of soil cover layer	placed 18" cover layer north of passive gas line #2 - some ^{cond} areas south of passive gas line are not covered - geomembrane showing
Geomembrane Placement	Placed geomembrane around passive gas line #6 area

SCHEDULE STATUS: TYPE AND AMOUNT OF WORK DONE vs. SCHEDULED WORK
Overall schedule ahead

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
PROJECT: Albion-Sheridan Landfill
Albion, Michigan

DATE: 8-11-99
REPORT NO.: 70

WESTON WO NO.: 20064.003.100.8010
USEPA CONTRACT NO.: 68-W7-0026
WORK ASSIGNMENT NO.: 003-ROBF-05AN
ON-SITE RFW REPRESENTATIVE: David C. DeYoung
SITE MANAGER: Deepak L. Bhojwani

INSPECTIONS: INSPECTIONS PERFORMED, DEFICIENCIES OBSERVED, ACTION PROPOSED, ACTION TAKEN

- (1) OHM-IT dug test pits (4-6 ft. deep) in areas along east side of landfill (off liner) in areas where trash was observed ^{VP} by MDCR and Weston - no trash observed in test pits.
- (2) Any surficial trash observed by MDCR and Weston on east side of landfill was picked up and consolidated ^{SP} into landfill area to be covered by liner.
- (3) Seep area covered with sand/soil along north face of landfill.

QUALITY CONTROL TESTS BY CONTRACTOR:

Vacuum box testing, air testing, and ~~test~~ ^{PP} by GSE

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
PROJECT: Albion-Sheridan Landfill
Albion, Michigan

DATE: 8-11-99
REPORT NO.: 70100

WESTON WO NO.: 20064.003.100.8010

USEPA CONTRACT NO.: 68-W7-0026

WORK ASSIGNMENT NO.: 003-ROBF-05AN

ON-SITE RFW REPRESENTATIVE: David C. PeYoung

SITE MANAGER: Deepak L. Bhojwadi

REMARKS: IDENTIFY SAFETY CONCERNS, SITE VISITORS,

Methane fire occurred on Friday after 5:00PM - no injuries but burnt hole in liner
(north west corner of site) (Brian warned OHM-IT)
Brian warned (OHM-IT) getting readings of 20% LEL below liner in
area to be air tested today - OHM-IT trying to vent area

SIGNATURE: David C. PeYoung
NAME: David C. PeYoung
DATE: 8-11-99

10: Deepak Bhojwani

From: Linda Kroska

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
 PROJECT: Albion-Sheridan Landfill
 Albion, Michigan

DATE: 12 August 1999
 REPORT NO.: 70

WESTON WO NO.: 20064.003.100.8010
 USEPA CONTRACT NO.: 68-W7-0026
 WORK ASSIGNMENT NO.: 003-ROBF-05AN
 ON-SITE RFW REPRESENTATIVE:
 SITE MANAGER: Deepak L. Bhojwani

Fax: 842-918-4055

WEATHER: Fair Cloudy Clear [] Inches/Rain
 TEMPERATURE: Low [] High [] °F 20's (F)

MEETINGS: MEEINGS HELD

L. Kroska meets Jeff Bodi (OTM) and Tim Hicks (WC) and discusses work for the day. Tim says that OTM is crushing drums in drum staging area and placing them into a roll off. GSE has run out of flexible membrane but should be getting more membrane the beginning of next week.

REFERENCE SPEC, DWG, ACTIVITY #	WORK PLANNED TODAY, LOCATION OF WORK
Placement of Soil Cover Layer	OTM is moving borrow material (west borrow) to the east side of the cell - 18" cover layer.
Geomembrane Placement	GSE is sewing seams on geomembrane panels.

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
PROJECT: Albion-Sheridan Landfill
 Albion, Michigan

DATE: 12 August 1999
REPORT NO.: 2081

WESTON WO NO.: 20064.003.100.8010

USEPA CONTRACT NO.: 68-W7-0026

WORK ASSIGNMENT NO.: 003-ROBF-05AN

ON-SITE RFW REPRESENTATIVE:

SITE MANAGER: Deepak L. Bhojwani

**INSPECTIONS: INSPECTIONS PERFORMED, DEFICIENCIES OBSERVED,
 ACTION PROPOSED, ACTION TAKEN**

- 1.) Irregular looking erosion seen at the south west corner of the cell at main drainage pipe (LK takes a photo).
- 2.) Seven over-pack drums observed in the drum staging area. No markings on drums regarding contents (Hazardous/Non-hazardous). Excavator is crushing drums and placing crushed drums in a roll off.
- 3.) Seep area is covered with flexible membrane. No sign of break through off the cell to the west but a sewage-like odor is observed.

QUALITY CONTROL TESTS BY CONTRACTOR: 4

- 4.) Erosion along the east side of the cell from last week ends storms have not been covered.
- 5.) Woodward Clyde site manager leaves the site @ 1400 hours for the week. No Woodward Clyde oversight for August 13, 1999.

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
PROJECT: Albion-Sheridan Landfill
Albion, Michigan

DATE: 12 August 1999
REPORT NO.: 7071

WESTON WO NO.: 20064.003.100.8010
USEPA CONTRACT NO.: 68-W7-0026
WORK ASSIGNMENT NO.: 003-ROBF-05AN
ON-SITE RFW REPRESENTATIVE:
SITE MANAGER: Deepak L. Bhojwani

REMARKS: IDENTIFY SAFETY CONCERNS, SITE VISITORS,
<i>Fire Extinguisher observed on cell in sep area.</i>
<i>No indications of additional fires on cell observed.</i>

SIGNATURE: *Linda Korobk*
NAME: Linda KOROBK-A
DATE: 12 August 1999

PREPARED BY: Roy F. Weston
 PROJECT: Albion-Sheridan Landfill
 Albion, Michigan

DATE: 8-13-99
 REPORT NO.: 77

WESTON WO NO.: 20064.003.100.8010
 USEPA CONTRACT NO.: 68-W7-0026
 WORK ASSIGNMENT NO.: 003-ROBF-05AN
 ON-SITE RFW REPRESENTATIVE: David C. Young
 SITE MANAGER: Deepak L. Bhojwani

WEATHER: Fair Cloudy Clear [] Inches/Rain
 TEMPERATURE: Low 73 High 80°F

MEETINGS: MEEINGS HELD Mike (GSE) geomembrane laid in W-E direction along northern face of landfill (⊥ to slope) because Tim (W-C) wanted to cover seep quickly and ^{in certain areas} W-E orientation would be best
 Mike (GSE) stated "not too much" seep liquid was observed when anchor trench was excavated and refilled in northeast corner of landfill - no liquid pumped or recovered

REFERENCE SPEC, DWG, ACTIVITY #	WORK PLANNED TODAY, LOCATION OF WORK
Placement of 18" cover soil layer	place soil on south side of landfill
QA/QC / Repair work on geomembrane	perform air testing / patch work on geomembrane

DAILY OVERSIGHT REPORT

PREPARED BY:	Roy F. Weston	DATE:	8-13-99
PROJECT:	Albion-Sheridan Landfill Albion, Michigan	REPORT NO.:	78
WESTON WO NO.:	20064.003.100.8010		
USEPA CONTRACT NO.:	68-W7-0026		
WORK ASSIGNMENT NO.:	003-ROBF-05AN		
ON-SITE RFW REPRESENTATIVE:			
SITE MANAGER:	Deepak L. Bhojwani		

REFERENCE SPEC, DWG, ACTIVITY #	WORK PERFORMED TODAY LOCATION OF WORK
Placement of 18" cover soil layer	removed soil from west borrow pit and placed in area south of passive gas line #3
QA/QC Repair work	conducted work in areas north of passive gas line #4

SCHEDULE STATUS: TYPE AND AMOUNT OF WORK DONE vs. SCHEDULED WORK
overall schedule is ahead

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
PROJECT: Albion-Sheridan Landfill
Albion, Michigan

DATE: 8-13-99
REPORT NO.: 72

WESTON WO NO.: 20064.003.100.8010

USEPA CONTRACT NO.: 68-W7-0026

WORK ASSIGNMENT NO.: 003-ROBF-05AN

ON-SITE RFW REPRESENTATIVE: David C. Young
SITE MANAGER: Deepak L. Bhojwani

INSPECTIONS: INSPECTIONS PERFORMED, DEFICIENCIES OBSERVED, ACTION PROPOSED, ACTION TAKEN

(1) No evidence of seepage in area off landfill (southeast^{west} corner of landfill)

(2) Inland waters removed dumpster from site with Manifest # MT 1215090 - listed as hazardous solid

QUALITY CONTROL TESTS BY CONTRACTOR:

Air testing conducted by GSE - W-C not on-site today

DAILY OVERSIGHT REPORT

PREPARED BY: Roy F. Weston
PROJECT: Albion-Sheridan Landfill
Albion, Michigan

DATE: 8-13-99
REPORT NO.: 72

WESTON WO NO.: 20064.003.100.8010

USEPA CONTRACT NO.: 68-W7-0026

WORK ASSIGNMENT NO.: 003-ROBF-05AN

ON-SITE RFW REPRESENTATIVE: David C. DeYoung
SITE MANAGER: Deepak L. Bhojwani

REMARKS: IDENTIFY SAFETY CONCERNS, SITE VISITORS,

Inland Waters on-site to pick up roll-off
dumpster with barrels / barrel contents within

SIGNATURE: David C. DeYoung
NAME: David C. DeYoung
DATE: 8-13-99

ATTACHMENT C

PHOTOGRAPHS

**PHOTOGRAPHIC LOG
ALBION-SHERIDAN TOWNSHIP LANDFILL SITE
19 JULY TO 13 AUGUST 1999**

<u>Photo</u>	<u>Description</u>	<u>Date</u>
1	Vacuum testing of an extrusion weld.	19 July 1999
2	Roughing and grinding of an area before extrusion welding.	19 July 1999
3	Water from the seep area being pumped onto the landfill.	19 July 1999
4	Completed extrusion weld.	22 July 1999
5	Geonet/Geomembrane placement along south side of the landfill.	22 July 1999
6	Placement of geomembrane and geonet in progress.	27 July 1999
7	Southwest view of the landfill before drain installation.	27 July 1999
8	Anchor trench on the west side of the landfill.	29 July 1999
9	View of the seep area.	3 August 1999
10	Placement of geonet over geomembrane in progress.	5 August 1999
11	Installation of drainage layer in progress.	6 August 1999
12	Formation of a methane pocket under the geomembrane near passive gas line #4.	6 August 1999
13	Placement of soil cover layer in the southwest corner of the landfill.	6 August 1999
14	Water from the seep area being pumped to the top of the landfill.	9 August 1999
15	Erosion of gas collection layer below the geomembrane due to heavy rainfall.	9 August 1999
16	Loading of drums for off-site disposal.	10 August 1999
17	Pumping of water from the seep area into a holding tank.	11 August 1999
18	Removal of surficial waste on the east side of the landfill. (NOTE: This waste was exposed after heavy rainfall.)	11 August 1999

<u>Photo</u>	<u>Description</u>	<u>Date</u>
19	Crushed drums and overpacks in the drum storage area.	12 August 1999
20	Placement of geomembrane on the north side of the landfill. (NOTE: Geomembrane seams are not placed parallel to the maximum slope.)	13 August 1999



PHOTO #1: VACUUM TESTING OF AN EXTRUSION WELD.
19 JULY 1999



PHOTO #2: ROUGHING AND GRINDING OF AN AREA BEFORE EXTRUSION WELDING.
19 JULY 1999

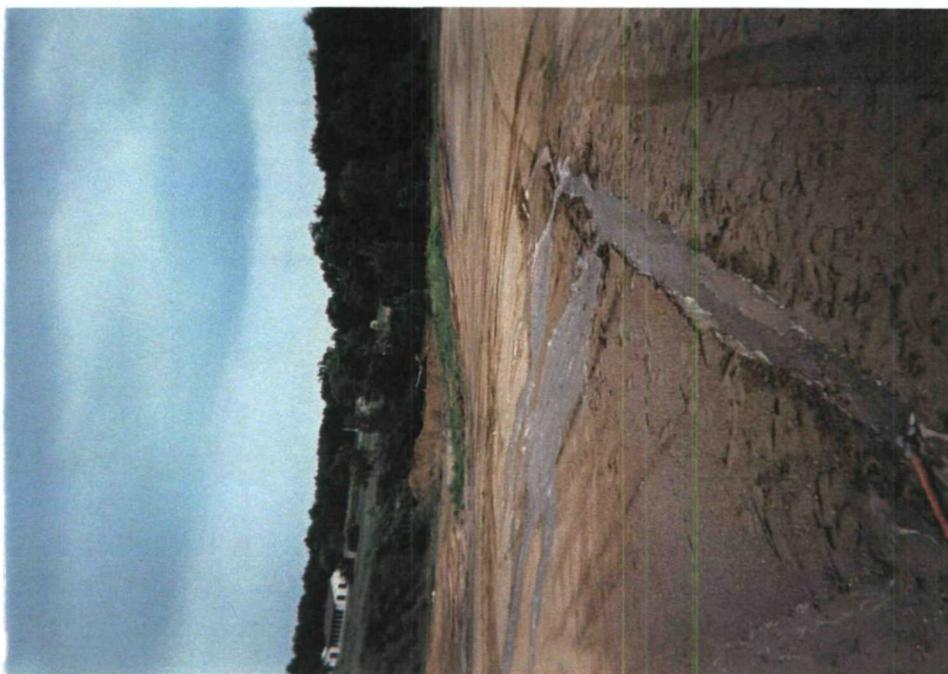


PHOTO #3: WATER FROM THE SEEP AREA BEING PUMPED ONTO THE LANDFILL.
19 JULY 1999



PHOTO #4: COMPLETED EXTRUSION WELD.
22 JULY 1999



PHOTO #5: GEONET/GEOMEMBRANE PLACEMENT ALONG SOUTH SIDE OF THE LANDFILL.
22 JULY 1999



PHOTO #6: PLACEMENT OF GEOMEMBRANE AND GEONET IN PROGRESS.
27 JULY 1999



PHOTO #7: SOUTHWEST VIEW OF THE LANDFILL BEFORE DRAIN INSTALLATION.
27 JULY 1999



PHOTO #8: ANCHOR TRENCH ON THE WEST SIDE OF THE LANDFILL.
29 JULY 1999



PHOTO #9: VIEW OF THE SEEP AREA.
3 AUGUST 1999



PHOTO #10: PLACEMENT OF GEONET OVER GEMEMBRANE IN PROGRESS.
5 AUGUST 1999



PHOTO #11: INSTALLATION OF DRAINAGE LAYER IN PROGRESS.
6 AUGUST 1999



PHOTO #12: FORMATION OF A METHANE POCKET UNDER THE GEOMEMBRANE NEAR PASSIVE
GAS LINE #4. 6 AUGUST 1999



PHOTO #13: PLACEMENT OF SOIL COVER LAYER IN THE SOUTHWEST CORNER OF THE LANDFILL.
6 AUGUST 1999



PHOTO #14: WATER FROM THE SEEP AREA BEING PUMPED TO THE TOP OF THE LANDFILL.
6 AUGUST 1999



PHOTO #15: EROSION OF GAS COLLECTION LAYER BELOW THE GEOMEMBRANE DUE TO HEAVY RAINFALL. 9 AUGUST 1999



PHOTO #16: LOADING OF DRUMS FOR OFF-SITE DISPOSAL. 10 AUGUST 1999



PHOTO #17: PUMPING OF WATER FROM THE SEEP AREA INTO A HOLDING TANK.
11 AUGUST 1999



PHOTO #18: REMOVAL OF SURFICIAL WASTE ON THE EAST SIDE OF THE LANDFILL.
11 AUGUST 1999 (NOTE: THIS WASTE WAS EXPOSED AFTER HEAVY RAINFALL.)



PHOTO #19: CRUSHED DRUMS AND OVERPACKS IN THE DRUM STORAGE AREA.
12 AUGUST 1999



PHOTO #20: PLACEMENT OF GEOMEMBRANE ON THE NORTH SIDE OF THE LANDFILL.
13 AUGUST 1999 (NOTE: GEOMEMBRANE SEAMS ARE NOT PLACED PARALLEL
TO THE MAXIMUM SLOPE.)